

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MARCH 15, 1954



Viburnum Tomentosum Rotundifolium

SEEDS TREE—SHRUB—PERENNIAL
FLOWER—GRASS—VEGETABLE

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• SHENANDOAH IOWA •

AMERICAN NURSERYMAN

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Forms for the April 1 issue will close Friday, March 12.

Forms for the April 15 issue will close Friday, March 26.

Mail copy to arrive at Chicago by these dates — no later!

HOWARDS of HEMET

"Seasoned Rosebushes"



P. O. BOX 1345

HEMET, CALIFORNIA

Subject: Lilibet bare-root
rosebushes--1954
A.A.R.S. award winner

Dear Nurseryman:

We know that many wholesale suppliers were unable to fill all their orders for LILIBET plants this season because of the huge first year demand for new All-America Rose Selections winners.

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We suggest that you write to us at once for an availability list--or better still, place your order now to be certain of delivery.

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HOWARDS OF HEMET

P. S.

We grow rosebushes for the wholesale trade exclusively; none are sold directly to consumers.

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AMERICAN NURSERYMAN

F. R. KILNER
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Editorial

PRICES AND PROFITS

During and since the war, the practice has been followed, in nearly all industrial and agricultural lines, of raising prices in order to meet the constant demand for higher wages, shorter hours and other benefits to employees. Not all prices have advanced with equal rapidity, because it was found possible in some fields to make use of improved forms of mechanical production and other elements of technological progress. Some other industries were not so fortunate, and prices there have mounted to figures that are staggering in comparison with those of prewar times, as witness the building industry.

Now there are signs that the public, at least in some parts of the country, is reluctant to follow the upward climb of prices, and purchases are not made with the readiness that they were formerly. That change on the part of the public has led to readjustments in some industries in which production had boomed and, in fact, had pretty well caught up with the demand.

At present the high level of home building and the widened interest in gardening, plus the general prosperity of the nation, have maintained the strong demand for nursery stock. Some thinking has been done already by nurserymen as to means of maintaining prices and profits in seasons ahead. Thinking along the same lines has been stimulated for several years by the short supply of nursery labor, which has been generally inadequate in quantity and in quality. In spite of increased wages, the production from hand labor is not better in most nurseries than it used to be and in many it is inferior. Consequently, great stimulus has been given not only to laborsaving and timesaving mechanical equipment and devices, but study has also been given to methods of operation and management in themselves.

It is a long-acknowledged conclusion that labor for ordinary operations is paid at the rate of the slow-

est and least competent workman. There is little opportunity to differentiate between the worst and the best when a crew, or several crews, of men are doing the same type of work and generally working together. In smaller nurseries it has been found practical and advantageous to differentiate the tasks to such a point that different men will be doing different types of work, in accordance with their intelligence and ability, and they can be paid accordingly. Something along the same lines is being given consideration in some larger nurseries, where the problem is a more difficult one.

Improvements have been made in procedures of digging, handling, delivery and selling, though not always with a concurrent improvement in the productivity of labor. There are many aspects to the phases of management in nursery operation, and the ingenuity which has been brought to bear in some places is remarkable.

Even in the face of the current strong demand, prices are not so high for nursery stock that wasteful operations can be permitted, and if economy and thrift are watchwords in a period of prosperity, how much more important will they be if times change? The type of thinking mentioned above should be carried out by every nurseryman, so that he may better his profits, if possible, under present circumstances and maintain a successful business in the days when it might come to pass that circumstances were not so favorable.

GARDEN BOOKS

Several publishers, realizing the keen public interest in the subject, have been building up a line of garden books in recent years, till each has a score or more titles representative of the field. They cover a wide variety of aspects of the gardeners' interests—designing home grounds, trees and shrubs, flower species, vegetables, lawn maintenance, insects, diseases, etc., not to mention the related subjects, such as house plants and flower arrangement.

When a publisher has acquired such a line of titles in one field, book dealers and others can stock it easily, instead of having to order individual items from different sources. In such case, also, the publisher makes it easier for the retail nurseryman to stock a shelf of books in his garden

shop. And it is good business for the latter to do so.

In the spring rush the nurseryman prefers to devote his time to selling plants rather than to inanimate equipment or supplies. But in the quieter periods of winter and summer when the gardeners are either studying catalogs, in cold weather, or facing problems in their home grounds, in the growing season, the book shelf or table can be moved into a prominent location so as to attract the notice of customers.

Admittedly, sales figures will not total high in the book department, but it has an even more important value to the nurseryman in providing material for the information and education of his customers, whereby they will become better buyers and probably bother him with fewer queries.

For those retail nurserymen who do not have a well-stocked garden shop or are not ready to handle a line of garden books, there are published inexpensive guides or handbooks that deserve to be stacked on a counter in busy spring and at other seasons. Some of these have been advertised in this magazine, and others mentioned in the reviews of books and bulletins.

Some nurserymen prefer to give to each buyer a booklet of planting instructions, which is a good starter. It is possible to extend the variety of material so to be donated, at low cost, by obtaining copies, at a few cents each, of bulletins published by federal and state departments of agriculture. Each nurseryman needs to select the publications which are of most popular interest and value to customers of his merchandise in his locality.

The retailer who delves into the subject of printed information and counsel which may be supplied his customers by donation or by sale will find the effort worth while, for his own knowledge, for his customers' improvement and for an addition to sales volume when he stocks a line of garden books.



Midwestern Tree Specialists Meet

Wide Range of Topics Covered In Educational Sessions, Exhibits

By Noel B. Wysong



New officers of the Midwestern chapter of the National Shade Tree Conference. Left to right are Noel B. Wysong, River Forest, Ill., secretary; Dr. L. R. Tehon, Urbana, Ill., president, and Frank Hanbury, Peoria, Ill., vice-president.

The Midwestern chapter of the National Shade Tree Conference met February 17 to 19, at the La Salle hotel, Chicago, for discussion of problems in connection with the planting and maintenance of shade trees and ornamental shrubs. This was the ninth annual meeting of the organization, whose membership is drawn from the 12 midwestern states of Arkansas, Colorado, Illinois, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Oklahoma, South Dakota and Wisconsin. The interesting and informative educational sessions; the tools, equipment and materials displayed by manufacturers of arboricultural supplies and dealers, and the attractive educational exhibit combined to make the 3-day meeting enjoyable.

The conference was attended by 304 registered persons representing tree service companies, park districts, city forestry departments, tree and shrub nurseries, colleges, universities and plant research agencies. Eighteen states were represented in the attendance. Illinois led with 218 delegates and Wisconsin and Nebraska followed with 22 and 12 respectively. Three of the registered conventioners were from California, two from Connecticut and one each from Massachusetts, Kentucky, North Carolina, Texas, Pennsylvania and New Jersey.

Elect Officers

The business session was held Thursday afternoon and officers for the coming year were elected as follows: President, L. R. Tehon, head of the section of applied botany and

plant pathology, Illinois Natural History Survey, Urbana, Ill.; vice-president, Frank Hanbury, arborist, Peoria, Ill.; secretary-treasurer, Noel B. Wysong, forest preserve district of Cook county, River Forest, Ill. Elected to the board of governors for a 2-year term were Harold W. Glissman, superintendent of grounds, Father Flanagan's Boys' home, Boys Town, Neb.; F. Lewis Dinsmore, Dinsmore Tree Service, St. Louis, Mo., and Marvin Stevens, arborist, Glenview, Ill. Elected as alternates to the board of governors for a 1-year term were Joseph Josephson, Blue Island, Ill.; F. J. Habarthier, Creve Coeur, Mo.; Milo W. Christensen, Racine, Wis.; Marvin E. DeSmidt, Racine, Wis.; Harry A. Morrison, Wilmette, Ill.; C. L. Wachtel, Wauwatosa, Wis., and Charles W. Warren, Omaha, Neb.

The conference was formally declared in session and the delegates welcomed to the meeting by George W. Kelly, president of the Midwestern chapter and horticulturist of the Colorado Forestry and Horticulture Association, Denver. Pointing out that many of the benefits of attendance at any convention are derived from informal discussions during the evenings and other periods when the conference is not in session, Mr. Kelly urged members to "get acquainted with your neighbor and seek his advice on your problems."

The educational program was opened with a discussion of insect control developments, by E. F. Herrbach, entomologist of the Standard Oil Co., Chicago. Stating that scale insects constitute a most serious threat to tree health throughout the midwest, Mr. Herrbach enumerated the species of scale that are active in the area and suggested control measures. Scale insects are gaining in importance as a tree pest, he said, and he suggested that this is caused by (1) an increased awareness of the scale insect problem; (2) the fact that these insects are in a natural cycle of build-up, and (3) the use of chlorinated hydrocarbons, such as DDT, resulting in an upset in the balance of nature.

Scale insects that are presently found in considerable abundance from Michigan to Colorado, Mr. Herrbach stated, include elm scurfy scale, European elm scale, cottony maple scale, Lecanium scale, oyster shell scale, pine needle scale, San Jose scale, euonymus scale, Putnam scale, obscure scale and walnut scale. Controls suggested were as follows:

Scurfy Elm Scale. Application of a 5 per cent dormant oil spray, or a combination spray of eight gallons of 25 per cent DDT-white oil emulsion plus two gallons of dormant oil in 100 gallons of water was advised. For summer control operations, two

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Industrial Landscaping—Show Window for Nursery Stock

By Howard P. Quadland

Director of Public Information, American Association of Nurserymen

Industrial landscaping is a big market for nursery stock, but it is a market that can be doubled or tripled with promotion. Moreover, it is a market that long has been undersold by the trade. In many instances, \$1,000, \$2,000 or even \$10,000 jobs have been sold when they easily could have been made \$2,000, \$4,000 or \$20,000 jobs.

There is no formula for the percentage of the cost of an industrial establishment to be expended for landscaping. Of course such costs will vary widely depending on the extent of the work, such as topsoil, grading, walks and drives, etc., which often is included in the landscaping. But a common denominator for the minimum percentage to be expended for *seeding and planting exclusively* should be at least 5 per cent of the cost of the building, according to several authorities. Thus for a million dollar factory at least \$50,000 should be spent. Under \$250,000, the minimum should be at least 10 per cent of the cost of the building. Of course, old, established factories may not have enough space to do much landscaping and in that case the expenditure naturally would be less.

The trouble with many industrial companies is that they build a factory and then look around for a few plants to keep it from looking too bare. They often are not sold by the trade on what other firms are doing (as shown by the photos in this issue of the American Nurseryman). Nor are they usually sold on the increased respect of the community that stems from adequate landscaping, as well as better labor relations, because employees prefer to work in a beautifully landscaped factory.

Pictures Sell Landscaping

On one occasion an executive came into our offices to see pictures of the entries in our "Plant America" industrial landscaping contest. He borrowed some of them to show to the heads of his company in order to illustrate how other firms are landscaping. Result: They spent about twice as much for landscaping as they had intended, because they wanted their factory to be as attractive as those of their competitors.

So let's set our sights higher! Let's not take what is given out but set a goal which we know to be justified!

The "Plant America" industrial landscaping awards of the American Association of Nurserymen can do much, in a big way, to focus attention upon both the need and the advantages of more beautifully planted factories. These awards have been widely publicized throughout industry.

One has only to read the names of the award winners to realize that they are the cream of American industry. But there are many thousands of smaller factories and office buildings that need to be beautified with trees and shrubs. Some of these also won "Plant America" awards. The awards are not given lightly. They have to be earned by the quality of the planting. The plantings of some large firms failed to qualify. We must set our standards for landscaping high and keep them there.

The trouble in the past has been that the heads of many companies, their minds trained on production,

have not concerned themselves a great deal with landscaping. We must make them realize that good landscaping not only reflects the prestige of the company but it actually results in better community and employee relations and thus better production. Workers proud of a factory will take more pride in their work. Management will just as easily spend \$50,000 for landscaping as it will \$25,000, or \$5,000, if management realizes these things and accepts them, in time, as general practice. Whether they do or not depends largely on the nursery industry.

Next Big Development in Industry

To illustrate, suppose you told an industrialist 50 years ago that he had to spend \$250,000 on a cafeteria to feed his employees. He would have thought you were crazy. But today some corporations spend far more than that. Industrial landscaping and beautification can be the next big development within industry, and a big market in itself.

And I would like to offer a challenge. Take these industrial landscaping pictures and make an ap-

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MORE PICTURES

See pages 9, 10, 11, 58 and 59 in this issue of the American Nurseryman for more pictures of award-winning industrial landscaping projects.

"Plant America" Industrial Landscaping Award Winner



Well-kept lawn and shrubbery distinguish the landscaping of Bomac Laboratories, Inc., Beverly, Mass. The effect created here is far different from that produced by the typical, dingy industrial establishment. This is an American Association of Nurserymen industrial landscaping award winner. Corliss Bros., Inc., Gloucester, Mass., carried out the landscaping on this project.

State University Sponsors Event for Nurserymen

Pennsylvanians Attend Short Course

By Lawrence D. Little

The ninth annual nurserymen's conference sponsored by Pennsylvania State College was held at State College, Pa., February 16 to 18. The welcoming address was given by C. S. Wyand, executive assistant to President Milton S. Eisenhower, of the college. Mr. Wyand outlined the development of the school with regard to its functions and obligations to agriculture in the state. He reviewed the social changes which accrued, making possible the education of farm youth and eventually the establishment of a coeducational institution.

J. O. Pepper, professor of entomology extension, speaking on "Controls for Insects on Ornamental Plants," suggested using liquid DN early in the dormant season to control aphid eggs and armored scales on deciduous material. The pine needle scale, juniper scale and maple bladder gall mites are being controlled with liquid lime-sulphur applied during the dormant season.

The spruce gall aphid can be controlled with one pound of Lindane 25 per cent wettable powder in 100 gallons of water applied in late April.

Hormones and Propagation

Robert Beatty, of the American Chemical Paint Co., Ambler, Pa., spoke on the subject of hormones as used by the nurseryman. He emphasized the magnitude of this field, and continued by saying that no one person or small group of people has discovered all the facts that are now known about plant hormones. The curiosity of one researcher picks up where the other fellow left off.

Mr. Beatty offered some background material on the development of growth regulators and some of the thinking which went into this development.

The original observations which led directly to the first isolation of a plant hormone were published in 1880 in Charles Darwin's book "The Power of Movement in Plants," he stated. Growing plants are sensitive to light and force of gravity. When a young plant is placed in a window, the plant will bend toward the light and arrange its leaves so that the maximum light falls on them. These movements of the plants are brought about by opposite sides of the organ

or organs growing at different rates in response to stimuli.

This phenomenon interested Darwin and he selected canary grass, a plant that is particularly sensitive to light. He noticed that the region in which these plants could bend was quite a distance from the tip. If the tip was removed the plant could not bend toward the light, and he postulated that something was formed in the tip or growing point which was transmitted down the plant and affected the organs responsible for the bending.

During the next 30 years several contributions were made, an important one being Boysen-Jensen's theory that a chemical was moving from the bud and responsible for the bending mentioned above.

About 50 years after Darwin wondered why plants bend toward the light, research showed that light from one side induced an accumulation of hormones on the darker side of the tip and this excess diffused down the stem and made it grow more rapidly on the darker side and thus bend toward the light. The really great advancement in hormones in practical agriculture began when Kogl

isolated the chemical responsible for the phenomena just discussed.

Kogl showed this substance to be indoleacetic acid, a compound known to chemists since 1904, but not known to be active on plants.

"It has been known by propagators that species which normally root with ease usually respond readily to auxins, whereas the poor or non-rooting species are less responsive," Mr. Beatty continued. "The positive response takes the form of accelerated rate of rooting and there is often an increase in the total number of cuttings which root. These advantages are clearly understood and accepted by most propagators today."

In 1945 Zimmerman tried several phenoxy acids and he indicated that 2,4,5-trichlorophenoxy propionic, 2,4-dichlorophenoxy propionic, 3-chlorophenoxy propionic and several others induced a large number of roots over a wide range of concentration and had an activity comparable to naphthaleneacetic acid and indolebutyric acid.

With the information available Wells and several other propagators

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"Plant America" Industrial Landscaping Award Winner



The clean, inviting look of the bakery of Holsum Bakers, Tampa, Fla., is enhanced no end by the crisp, attractive landscaping. This landscaping job won an award in the recent competition sponsored by the American Association of Nurserymen. The landscaping was done by the Holmes Nurseries, Tampa.

West Virginia Nurserymen To Plant Trees from France

By F. Waldo Craig

The West Virginia Nurserymen's Association, at its meeting, at Charleston, February 4 and 5, agreed to assist in the planting of oak trees from the French gratitude train. The car containing these trees arrived at Charleston in 1949. These trees are to be planted in parks and on public property throughout the state, and their planting is to be a part of the "Plant West Virginia" program of the association. There are 14 trees, 12 oaks and two beech trees, to be planted. It is hoped that appropriate ceremonies will be arranged to commemorate plantings of the trees.

In presenting the nurserymen with the opportunity to perform this civic function, Mrs. Clara Boyd, representing the French gratitude train committee, spoke of the committee's pleasure in having the assistance of the nurserymen of the state in the setting of the trees. Their assistance, she said, will assure the committee that the trees will be given the correct handling to insure their continued survival.

Mrs. Boyd outlined West Virginia's part in the gratitude train. In 1947 six carloads of milk, one

carload of syrup and one carload of flour were sent from West Virginia to France as a part of the great friendship train. In 1949 the French people, in gratitude for the food, returned a French car loaded with gifts for the people of the state. When this car of assorted gifts arrived at Charleston, the committee found trees and plants, a sack of acorns and a sack of beechnuts. Some of the plants were destroyed in the city incinerator, as they were of species not allowed entrance to this country. There remained two European beech trees and four English oaks. From the acorns additional English oaks were secured, but the beechnuts failed to sprout.

The trees were small 1-year-old plants when they arrived. They were placed in the West Virginia Forest Nursery, at Lesage, for care until they were large enough to set permanently and until they were released from postentry quarantine. They have been pruned and moved three times and should now be in fair condition for final transplanting.

The French gratitude train committee will allot trees to civic groups

which apply for a tree to be set in their communities. It is hoped that local groups, such as the Boy Scouts of America, garden clubs, memorial associations, etc., will commemorate the setting of the trees at each permanent site. The nurserymen's association agreed to accept the trees upon their arrival in each community, to care for the trees until planted and to see that they are planted properly.

In appreciation of the interest the West Virginia association has shown in this project, Mrs. Boyd presented President Black a figurine from the French car. F. Waldo Craig, secretary-treasurer of the association, was presented a handmade table throw for his interest in the trees from the time of their arrival. Mrs. Boyd also thanked the West Virginia conservation commission for its part in the care of the trees during the past five years. Don Cuppett, assistant state forester, was present to represent the conservation commission.

Weed Control Discussed

J. A. Lambrech, Carbide & Carbon Chemical Corp., South Charleston, and Atlee Conner, Conner & Amos, Inc., Charleston, discussed "Weed Control in the Nursery." Mr. Lambrech presented slides of tests conducted throughout the country on the use of Crag Herbicide I, and Mr. Conner described the use of this chemical at his nursery. Mr. Lambrech stressed the importance of using the exact recommended quantity of the chemical to the acre, applied evenly and at low pressure, under 80 pounds. He also pointed out that Crag Herbicide I must be applied to ground free from weeds and that it kills seedlings, not growing plants. Later in the day, Mr. Conner showed views of spray areas where poor kill was secured because of a day or two of delay in application caused by high winds or wet spots in the field. Mr. Lambrech reported the successful use of this herbicide on most mature plants, including roses, gladioli, strawberries, hollies and yews, but azaleas, he said, were damaged.

The final item on the program, a symposium on landscaping a typical West Virginia home, proved so interesting that a request was made to continue it at the next meeting, when there would be more time to develop the subject.

In the business session it was decided to hold the summer meeting at White Sulphur Springs. Plans have been made to use Greenbrier state forest, the nursery of Conner &

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"Plant America" Industrial Landscaping Award Winner



The approach to this industrial building, of the Florida Power Corp., St. Petersburg, Fla., is softened and beautified by a broad expanse of lawn and attractive plantings. This was another award-winning project in the A. A. N. landscaping competition.



Holding an informal chat during the recent Maryland Nurserymen's short course are, left to right, J. H. Burton, Hyattsville, Md.; J. B. Morrison, Morrison's Nursery, Seat Pleasant, Md.; Adolph Gude, Jr., A. Gude Sons Co., Rockville, Md., and Raymond Consley, Glen Hills Nursery, Rockville.

Maryland Holds Course

By George S. Langford

The annual short course and meeting of the Maryland Nurserymen's Association was held February 18, at the University of Maryland, College Park, Md. Approximately 60 nurserymen from all parts of the state attended. The program was opened by Carl Orndorff, the president of the association, who presided throughout the day. Special features at the short course were displays and demonstrations of equipment and supplies used by nurserymen and landscape contractors.

The first speaker on the morning program was John Coleman, Coleman Nursery, Portsmouth, Va., who talked on "Container-grown Plants" and then led a discussion of this subject. After describing the various types of containers that are being used for this purpose, Mr. Coleman pointed out that sales of container-grown stock in his opinion will increase. He focused attention on the ease with which such plants can be handled at garden centers and sales grounds and the fact that more and more persons are interested in and demanding container-grown plants. In discussing procedures for growing and handling container-grown nursery stock, Mr. Coleman emphasized proper soil mixtures, fertilization and adequate watering. He stated that sufficient watering is essential. He further stated that he has never been able to devise a fully satisfactory sprinkling system and for that reason advocates hand water-

ing. Many plants, according to Mr. Coleman, grow better in containers than in the open field.

After the discussion on container-grown plants, Dr. Robert W. Krauss, of the University of Maryland, gave an informative discussion on the benefits certain plants derive from the association of fungi with their roots, which form a composite structure called mycorrhizae. He said that

scientists have found that it is essential that these fungi be present with certain plants and associated with their roots in order for the plants to thrive. Outstanding work has been done in Sweden, according to Dr. Krauss, on the relationship between the root fungi and plant growth. There, he stated, plant physiologists have proved that nutrients pass first from the soil to the fungi and then to the plant root. He pointed out that much is yet to be learned concerning the relationship between fungi and plant growth, but the time may come when it will be standard practice to use fungi inoculation when certain plants are moved to new locations.

Another interesting phase of Dr. Krauss' talk was his discussion of chemical compounds known as chelating agents and how they are utilized by soils in which minor elements are so tightly held that they are not available to plants. These chemicals, the use of which is still more or less in the experimental stage, seem to have the ability to release the elements and make them available to the plants. Dr. Krauss suggested that nurserymen desiring to use chelating agents do so in an experimental way. These chemicals, said Dr. Krauss, have been found exceptionally useful for correcting iron chlorosis in azaleas.

The afternoon session was opened by Dr. John R. Keller, of the university's department of plant pathology, who discussed the new fungicides now available. Nurserymen can

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"Plant America" Industrial Landscaping Award Winner

Dividing the accompanying picture diagonally from upper left to lower right produces two startlingly different halves: The one a view of heavy industry, the other a serene garden setting. More startling, however, is the fact that both elements are in the same picture, proving that even a foundry need not look the part. American Car & Foundry Co., Berwick, Pa., won an American Association of Nurserymen industrial landscaping award for this project. Enchanted Hill Nurseries, Briar Creek, Pa., did the landscaping work.





Transition between the oak and the beech-maple-hemlock associations. Note the carpet of herbaceous plants. (See text.)

Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

PLANT ECOLOGY

Plant ecology—what is it, and how can it be beneficial to a landscape designer? It is the study of plants in relation to their environment, and it can provide many aids to anyone interested in grouping plants as they are found in nature. These groupings are known as plant associations, and it is important to note that, in the same environment, certain plants are found together. When the water table, soil, elevation or some other factor changes, some plants are retained, others disappear from the group and certain other plants become members of the group. As a result, new plant associations are formed.

Because of the many differences of soil, altitude, temperature, etc., in the United States, there is variation in the associations found from east to west and north to south. There are definite sequences in which associations follow one another, and a few plant carry-overs are found from area to area. These sequences are typical only of localities where growing and atmospheric conditions do not fluctuate appreciably.

The property of the small home is usually not suited for accepting the plant associations. Larger areas are needed in order to use profitably

many of nature's teachings. However, even on the small property where but a single tree stands, many native shrubs and small trees can be planted near the house and around the lawn. Native flowers and possibly ferns can also be collected to give a restful natural effect to the whole landscape scheme.

Transition Ever-Present

Transition is ever-present in nature. Not long after one plant group becomes established, temperature, light and moisture change to such a degree that a new group enters to replace it. Such transitions are evidenced by successions of plant associations in the general northeastern part of the United States. In areas where average rolling inland conditions prevail, the following succession of events is likely to take place on abandoned land. Open fields are filled with shrubs and herbs that enjoy full sunlight, and these form an area conducive to the germination of juniper seeds. Junipers become established, and the shade and protection offered by the junipers invite the birches to become a part of the juniper group. Eventually the birches succeed the junipers. Moreover, pines usually follow the birches, and, as the shade is likely to be too deep for the germination of their own

seeds, the pines are followed by oaks. Mature oak woodlands provide an ideal environment for the growth of beech, maple and hemlock. These all grow in shade, but the hemlocks flourish where it is coolest and the shade is deepest.

How many years are needed to complete this sequence? Nobody knows, but it takes at least 50 to 100 years.

The associations are named juniper, gray birch, pine, oak or beech-maple-hemlock, because these are the most prominent or dominant trees of the group. Many additional plants are also found within each association, sometimes present, sometimes not. These will be discussed as each plant association is described later in this article.

There is always a tendency for nature to produce a more luxuriant type of vegetation, and in this region Utopia is realized through the beech-maple-hemlock association. Sometimes this climax or final association never becomes a reality. Such obstructive factors as fire, lack of water or severe cold may prevent realization of this Utopia.

Only those plants which can adapt themselves to changes in environment survive. The deepening of a gully or the filling in of a pond provides such strong contrast to original conditions that some plants continue to grow and produce offspring, and others die. The seeds of the latter are sometimes transported to areas where the plants can succeed.

Landscaping, as nature does it, offers opportunities to study the principles whereby indigenous vegetation becomes established. We should not only study fundamentals but also make records of observations, keep them and make them accessible to nurserymen, fellow nursery association members and others who may be interested.

The open, rolling fields are comprised of varying soils, often those that are devoid of organic matter. Dry, rocky conditions may be present, and, often, a dip in the topography will include a moist situation. The sun is important, as the majority of open-field association members enjoy and need full sunlight. Some plants are dwarf and rest in the shelter of their associates.

Herbaceous Plants Found

Many of the herbaceous plants grow among shrubs and small trees or appear in drifts over the landscape. The list is lengthy but includes many plants that are obtainable in

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PLANT NOTES HERE AND THERE

By C. W. Wood

In a letter asking for the best propagating method for *Lithospermum Grace Ward*, a New York reader wonders how I account for the fact that English gardeners find *Lithospermum canescens* so difficult to cultivate that they usually treat it as an annual, while it is virtually a weed in parts of this country. Let us take the latter first.

We should remember, first of all, that it is a weed only under certain conditions. According to my observation of the plant in nature, it grows only in the lightest soil, one of fairly high acidity; thus I find it locally on the pine plains along with bird's-foot violet and *Lupinus perennis*, and also in the acid sand dunes. That it is not what one would call a permanent plant is apparent, for one may find a thriving colony in a certain spot one year, and the next blooming season may show it almost absent from that area. The shifting dunes may have something to do with its disappearance, but I suspect from the plant's behavior under cultivation that it is naturally short lived. I also think that if our English friends would give their plants an acid sand and forget about adding fertility in the form of peat and leaf mold, they would overcome many of their problems with this *lithospermum*, certainly the one caused by the plant's resentment against damp.

Type *Lithospermum prostratum*, or *Lithodora diffusa*, if you prefer, may be grown from seeds by the careful, but varieties like *Grace Ward*, in which our correspondent is interested, must be reproduced vegetatively. Unfortunately, I am not prepared to say which method is best, but it is safe to say, I think, that green cuttings taken in early summer are the best raw material. The best way to handle them is another matter. I read somewhere of a scheme that has been worked out to the most minute detail, with operations planned almost to the moment; of its efficacy I cannot speak, for plant propagation by a stop watch has never appealed to me. Soft cuttings about two inches long, with no old wood at the base, made during the month following mid-July and inserted in sand and peat,

should root 75 per cent within a month and be ready for potting, singly, in a 2½-inch rose pot. Our New York correspondent understands, I imagine, that no form of *L. prostratum* is hardy in our latitude; so the potted cuttings must be kept in a protected frame over winter. I surmise, though I never tried it, that the commercial grower, looking for a quick turn-over, would find it advantageous to keep them growing over winter in a cool greenhouse. A good potting mixture can be made from equal parts of leaf mold, peat, loam and sand. We found that one stopping was sufficient for normal purposes, but I know careful growers who stop their young plants twice, claiming that the extra operation is

paid for by better and bushier growth.

When I first grew *Chaenorrhinum origanifolium* years ago, it was known as *Linaria origanifolia*. Later it appeared in catalogs as *Anarrhinum crassifolium*, which it patently was not. I have seen it listed as an *antirrhinum*, a synonym of the name which we are using at this time. These names are mentioned now because the plant may be found under any of them when one commences to look for it.

The important thing, however, is to find a little plant with small, hairy, oblong leaves which commences to produce 2-lipped, lavender to almost white flowers, with yellowish-white

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lips, while the plant is only two or three inches tall in spring and continues until it eventually reaches a height of eight or 10 inches. That process usually takes most of the summer; and, if the plant is then sheared over, it should commence the pleasing performance all over again.

In addition to its more or less ever-blooming nature, the plant has an easygoing temperament which allows it to thrive on little care. When it was under trial here in northern Michigan, it did well in any sunny spot in well-drained soil, self-sowing in a gratifying way. It is true, of course, that the plant's prodigious efforts tend to make it short lived, but it will usually perpetuate itself if given the opportunity. I should expect it to be a good seller in the neighborhood nursery, especially if one has small pot plants in bloom when the bulb-flowering season is on. And it would be an easy task to have it ready for sale at this time, for it comes into flower early, within two months, as I remember.

Blue Verbena

It is pleasing to the lover of native plants to find that a few nurseries are offering *Verbena hastata*. It is not easy to understand why this plant has not found a niche in American gardens, unless it is because some purists have spoken unkindly of the purple of its flowers. Really, there is nothing in its color that should bar it from the garden of even the most fastidious, and it has many good points which should endear it to the gardener who is not afraid to stand on his own feet and do his own thinking.

It is found rather sparingly in my section of northern Michigan, growing in both dry and moist situations, usually best where it is assured an abundance of moisture. One often finds lovely colonies, though, on dry hillsides where growth is kept down to around two feet and the entire plant is more compact than it is in lowlands. In the lowlands it is not unusual to find plants four feet high, and I have seen them as much as five feet. The flowers come in numerous slender spikes at the top of each stem, and their purple buds commence to open at the bottom of the spike and continue to the top as the spike elongates. That gives a long season of color, running from the middle of July to well toward the end of August in this latitude (45 degrees). Any plant that will bloom for so long a period at the time of year which this one has selected de-

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Blackberry Lily

Some plants fluctuate in popularity like a barometer, attaining wide acceptance for a while, then going into eclipse for a while, perhaps repeating the process two or three times during a century. That, at least, seems to be the case with the much-named iris cousin now known as *Belamcanda chinensis*, which has been called *B. punctata*, *Gemmingia chinensis*, *Ixia chinensis*, *Moraea chinensis* and *Pardanthus chinensis* since its introduction from the Orient in the first quarter of the 19th century, about 1825, according to the books. We read that it later attained great popularity, especially in those sections where it is hardy, only to fall into disrepute when gardeners commenced to obey the edicts of pastel enthusiasts who could see no virtue in anything more robust than pale pink. Be that as it may, present indications seem to point to a revival of interest in the old favorite, and neighborhood growers in the more temperate parts of the nation may find it profitable to stock it again.

Just how much cold it can stand is not apparent from the literature. I do know, however, that it is not safe this far north, for, though it may go through several winters in a protected spot under mulch, it is likely to pass out any time. It is best, according to reports, in rich soil in full sun and may be grown from seeds or divisions.

As it grew here, it became about two feet tall, produced a succession of large (two inches across), showy, orange-colored flowers with a conspicuous reddish spot, in summer, followed by persistent, blackberrylike seeds. The fresh flowers make excellent cutting material, and the seedpods are useful in dried arrangements. The plant has entered into the domestic economy of the Orient, especially as an antidote to poisons, Drury reports in his "Useful Plants of India."

Mertensia Horneri

An Oregon reader, who lives close to the home of the plant which heads this paragraph, writes as follows: "I understand from an older reader of the American Nurseryman that several years ago you wrote in your department about *Mertensia horneri*. I lately became interested in this plant as a commercial possibility and would be glad to read about your experi-

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ences with it." Although I do not now find it, I probably have written a note about this lungwort, perhaps more than one, because its beauty impressed me when I was first introduced to it more than a quarter of a century ago, and my adoration for it has increased every time I have seen it since. I do, however, find a little piece on it in my garden notes for the spring of 1931, which I now quote in part: "The first mertensia to bloom this spring (1931) was *M. horneri*, which commenced to show its pretty pink buds on March 12 and steadily grew in grace until March 18, when it opened its first pale lilac-colored bell. After a day or two, the blooms turned an entrancing shade of light sky blue, and the small planting, with a gradation from pink through lilac to sky blue, was one of the loveliest sights I have ever seen. This is one of the smallest lungworts, as well as the most beautiful lungwort, that I know. It becomes no taller than three inches here, with two, sometimes three, rather large, glaucous, ovate basal and a few smaller stem leaves, with each stem ending in a drooping cyme of large, long bells."

Plant Needs Further Study

The collector from whom I obtained my first plants of *M. horneri*, the late D. H. Snowberger, told me that it grows naturally under semi-desert conditions, where it receives a baking from the time that it goes dormant in spring until the fall rains. In our first trials, it was given a high spot in light soil in the rock garden, where it persisted for several years without making a viable seed; later plantings of collected stock, made in a scree soil, lived no longer; so I have come to the conclusion lately that it needs further study before it is likely to become established in gardens. That conclusion has been confirmed by recent correspondence with a Seattle schoolteacher, who says that the plant is not permanent with him.

Because I like the plant so much and think that it has vast possibilities, if we once learn how to make it permanent, I have enjoyed much correspondence about it since it first came into my life, but the correspondence has all been rather inconclusive and even the name under which I have long known it is now denied me. One authority, to whom I just now referred, states that the correct name is *M. longiflora*, and he gives both *horneri* and *pulchella* as synonyms. Actually, material that I have had from Rocky Mountain collectors under the name *M. pulchella* did not closely resemble *horneri*, being

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Combination Set 1000 Flats 12000 Vita-Band 10		Sold in Units of 250 Sets only	Tom Thumb Flats	
Per 1000 Sets			Per 1000	
Size #1	Size #2		Size #1	Size #2
86.45	95.65		44.70	49.60

Specify style A or B (at right) and color if imprinting is desired.

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1 to 9, 60c each; 10 to 24, 50c each;
25 to 99, 45c each; 100 or more, only
40c each. F.O.B. Long Lake.

AND HORSE-SENSE HORTICULTURE

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1 to 9, \$1.00 each; 10 to 49, 85c each;
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both taller and more lax, with bells that were much smaller. However, my pulchella may have been misnamed; of that I cannot say. What interests me most is the fact that here is a plant of great beauty that deserves tremendous attention to woo it to garden ways.

Erodium from Cuttings

Some time ago I had a note in this column on erodiums, which brought forth several letters on the subject. I have now assembled the correspondence and find that most of the letters give slow increase as the reason for not stocking the plants. Accordingly, I have thought it advisable to append a little note on propagation.

If propagating stocks were generally available and a technique or two were better understood, several of the heron's-bills would no doubt be numbered among our most popular garden plants. But neither seeds nor plants of most kinds are regularly listed in this country and, consequently, are not available even to the best searchers. It is generally recommended that heron's-bills be grown from seeds, which would no doubt be good advice if seeds were plentiful, but none of the kinds that have been grown in our trials have produced seeds freely in this climate, and some do not set seeds at all. As a consequence, one has to rely on cuttings, and these are not always plentiful. Although it may not be the best way, we obtained good results by rubbing off new growths with a bit of crown attached, or, better yet, by taking these new growths with a tiny wedge of old wood cut away with a safety-razor blade, in early spring. These were inserted in sand in a propagating bench, preferably with a little bottom heat, and were potted off singly and grown along in frames until large enough to line out. Generally speaking, it is safe to say that an erodium needs sunshine and an alkaline soil, though a few, like the indestructible *E. manescave*, will go ahead in almost any soil or situation.

TWO new bulletins are available from the University of New Hampshire, Durham, N. H.—New Hampshire station bulletin No. 383, on breeding fruits, nuts and ornamentals, and No. 380, on breeding vegetables.

JOHN W. SCOTT is the new director of the Vermont department of agriculture, succeeding Harold Bailey, who has retired from state service.

STRAWBERRIES—RHUBARB—ASPARAGUS—GRAPES

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STRAWBERRY PLANTS

Grown in chemically treated soil; free from disease and insects.

We are facilitated to take care of your strawberry orders, large or small, making shipments direct to your customers under your tags, or direct to you in large lots for reshipment. We recommend shipping soft, succulent plants like strawberries direct from grower to planter. When handling orders in this manner, plants are received by your customers in good, fresh condition for planting. We are furnishing plants in this manner for several of the larger catalog houses throughout the country. Dormant plants from our modern cold storage are used in filling all late spring orders because experience has proven they are much more satisfactory. Write us for details on our pack-out service on strawberries.

	Per 25	Per 100	Per 250	Per 1000		Per 25	Per 100	Per 250	Per 1000
Albritton, midseason	\$.50	\$1.50	\$2.75	\$10.00	Klondike, early	\$.50	\$1.50	\$2.75	\$10.00
Ambrosia Late, late	.55	1.60	3.00	11.00	Klonmore, early	.50	1.50	2.75	10.00
Armora, midseason	.55	1.60	3.00	11.00	Massey, midseason	.50	1.50	2.75	10.00
Big Joe, late	.55	1.60	3.00	11.00	Midland, early	.60	1.70	3.25	12.00
Blakmore, early	.45	1.35	2.50	9.00	Missionary, early	.45	1.35	2.50	9.00
Catskill, midseason	.55	1.60	3.00	11.00	Premier, early	.55	1.60	3.00	11.00
Dorsett, early	.55	1.60	3.00	11.00	Red Crop, midseason	.55	1.60	3.00	11.00
Dunlap, early	.45	1.35	2.50	9.00	Red Star, late	.60	1.70	3.25	12.00
Eden, midseason	.55	1.60	3.00	11.00	Robinson, midseason	.50	1.50	2.75	10.00
Empire, midseason	.60	1.70	3.25	12.00	Sparkle, midseason	.55	1.60	3.00	11.00
Fairfax, early	.55	1.60	3.00	11.00	Streamliner, everbearing	.80	2.50	5.50	20.00
Fairland, early	.50	1.50	2.75	10.00	Superfection, everbearing	.80	2.50	5.50	20.00
Fairpeake, late	.60	1.70	3.25	12.00	Temple, early	.50	1.50	2.75	10.00
Gem, everbearing	.80	2.50	5.50	20.00	Tennessee Beauty, midseason	.55	1.60	3.00	11.00
Great Bay, midseason	.60	1.70	3.25	12.00	Tennessee Shipper, early	.55	1.60	3.00	11.00
					Vermillion, midseason	.60	1.70	3.25	12.00

VICTORIA RHUBARB ROOTS

5/8 to 1 -in. caliper	2.25	6.50	15.00	55.00
1 to 1 1/2-in. caliper	2.50	8.00	18.75	70.00
1 1/2 to 2 -in. caliper	3.00	10.00	23.75	90.00

GRAPEVINES

	Each	Per 10	Per 100	Per 1000
Agawam (red), 2-yr., No. 1	\$.30	\$2.00	\$15.00	\$125.00
Agawam (red), 1-yr., No. 1	.25	1.75	12.00	100.00
Caco (red), 2-yr., No. 1	.30	2.00	15.00	125.00
Caco (red), 1-yr., No. 1	.25	1.75	12.00	100.00
Catawba (mahogany), 2-yr., No. 1	.30	2.00	15.00	125.00
Catawba (mahogany), 1-yr., No. 1	.25	1.75	12.00	100.00
Concord (blue), 2-yr., No. 1	.25	1.75	12.00	100.00
Concord (blue), 1-yr., No. 1	.20	1.50	9.00	80.00
Fredonia (black), 2-yr., No. 1	.30	2.00	15.00	125.00
Fredonia (black), 1-yr., No. 1	.25	1.75	12.00	100.00
Niagara (white), 2-yr., No. 1	.30	2.00	15.00	125.00
Niagara (white), 1-yr., No. 1	.25	1.75	12.00	100.00
Portland (white), 2-yr., No. 1	.30	2.00	15.00	125.00
Portland (white), 1-yr., No. 1	.25	1.75	12.00	100.00
Worden (black), 2-yr., No. 1	.30	2.00	15.00	125.00
Worden (black), 1-yr., No. 1	.25	1.75	12.00	100.00

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	Per 25	Per 100	Per 250	Per 1000
3-yr., No. 1	\$1.25	\$4.00	\$8.75	\$30.00
2-yr., No. 1	1.00	3.00	5.75	20.00
1-yr., No. 1	.75	2.50	4.25	14.00

Write for special prices on quantity lots of these items. We can quote even more attractive prices than those specified in this advertisement to buyers interested in large quantities.

FREE PACKING FOR CASH WITH ORDER. Our regular Wholesale List offers a complete line of nursery stock. If you failed to receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery indicating you are entitled to trade prices.

BUNTINGS' NURSERIES, Inc.

Box 3

SELBYVILLE, DEL.



This Business Of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

FRUIT TREES USED AS ORNAMENTALS

Usually when a customer comes into the nursery enthusiastic about planting his driveway with apple trees or something similar, I try to dissuade him. In most cases, he has seen a picturesque old apple tree in New England, or visited the beautiful Winchester, Va., appleblossom festival, and using apple trees in his own yard has occurred to him. He does not realize that in order to translate this idea to reality, he is going to have to battle the many pests that fruit trees are heir to and will have to spray one tree as many times as an orchard is sprayed. In addition, he may find that the dropping fruits are a nuisance on his lawn.

If the idea is to try to raise a home orchard, we encourage him to treat it as such. Otherwise, homeowners will obtain similar and better results by using the strictly flowering varieties of fruit trees.

Yet with all the soundness of this general advice, fruit trees can be and are used in a number of ways to make a part of the home landscape picture.

For best results, though, it is necessary to avoid certain kinds of fruit and to take climate into consideration. For instance, here at Easton, Md., little or no satisfaction would result from planting the peach or the sweet cherry in our landscape. Although this is a peach-growing section, there are just too many pests. The cherry is unsatisfactory here because of the heat but would do well in Michigan or the Finger Lake region.

The apple, too, would be inadvisable. Japanese crab apples would be better. However, if the customer insisted on apple trees, the dwarf types would be far more attractive and seemingly less trouble. Even with dwarf apple trees, there is one difficulty. As attractive as they are, they rarely assume that picturesque shape that our arty clients seek.

The pear is not so attractive as the apple because of the lack of tint in the pear blossom's color, yet the pear does have an advantage in that

the tree itself is less subject to diseases, fire blight being the worst offender. I find the dwarf trees most attractive, and the standard types are picturesque when old, although less so than the apple.

The plum is really too messy a plant to use in the landscape. In addition, the tree is attacked by many pests.

Espaliered fruit trees have returned to popularity in recent years. These are, of course, planted at least 90 per cent for ornament and 10 per cent for fruit. They do make attractive landscape ornaments. The important thing to remember is that

the heat of the building against which they are espaliered changes their zone at least to some extent. We have found, for instance, that apples planted here seem to suffer from the reflected heat, but apricots and even figs are benefited by it.

While we can use the standard fruits as ornamentals, I really think better results are to be had with the other types. We think of the strawberry as a part of the home garden, but it can be used attractively as a border for path or flower garden. The blueberry is the most ornamental of all fruit-bearing shrubs, and, where the soil is suitable, it can easily be made useful and beautiful.

The grapevine can be made attractive, particularly when there is a suitable garden structure available. Some of the spraying needed on grapes can be avoided by bagging, although I must admit that paper bags hanging from a vine are not particularly ornamental.

Some of the more exotic fruits make showy ornamentals. My father

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS		
<i>Clethra alnifolia</i>	Per 10	Per 100
1 1/2 to 2 1/2 ins.	\$4.00	\$35.00
2 to 3 ft.	6.00	50.00
3 to 4 ft.	8.00	70.00

<i>Ilex verticillata</i>	Per 10	Per 100
2 to 3 ft.	6.00	50.00
3 to 4 ft.	7.00	60.00
<i>Viburnum cassinoides</i>	Per 10	Per 100
2 to 3 ft.	5.00	40.00
3 to 4 ft.	6.00	50.00
<i>Viburnum dentatum</i>	Per 10	Per 100
2 to 3 ft.	4.50	35.00
3 to 4 ft.	6.00	50.00

SUGAR MAPLES		
Unit price in quantities		
	10 to 50	
<i>Acer saccharum</i>	49	250
1 1/2 to 1 3/4 in. cal.	\$ 4.00	\$ 3.50
1 3/4 to 2 in. cal.	6.00	5.00
2 to 2 1/2 in. cal.	7.00	6.00
2 1/2 to 3 in. cal.	9.00	8.00
3 to 3 1/2 in. cal.	12.00	10.00

CLUMP BIRCH		
<i>Paper Birch</i>	Per 10	Per 100
5 to 6 ft.		
3 stems and up.	\$ 30.00	
6 to 8 ft.		
3 stems and up.	40.00	
<i>Gray Birch</i>	Per 10	Per 100
4 to 6 ft.		
3 to 6 stems	20.00	\$150.00
6 to 8 ft.		
3 to 6 stems	35.00	250.00

All stock is first-quality collected material except as otherwise noted. See the September 15 issue, pages 16, 17 and 18, for complete wholesale list for Fall, 1953, and Spring, 1954, of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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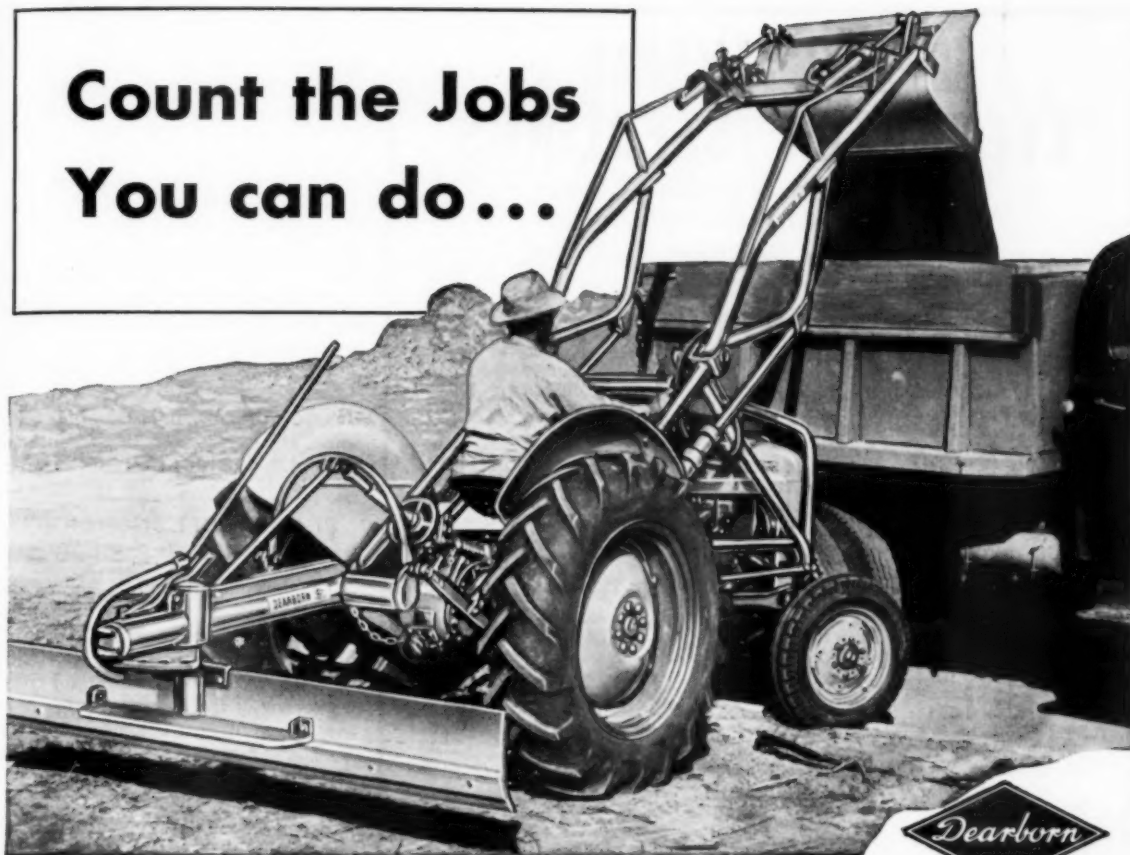
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- Quality Nursery Stock
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FIVE HUNDRED ACRES OF ORNAMENTAL STOCK

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Count the Jobs You can do...



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Here's a low cost power unit with the right capacity to handle a wide range of nursery and landscaping jobs that are too big for hand labor, yet too small to justify the use of heavier equipment.

POWER FOR MORE JOBS

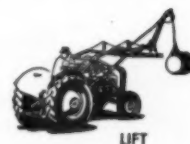
There's almost no end to the jobs the Ford Tractor can be equipped to do economically. Around the nursery you'll find it handy for digging holes, loading, lifting, and cultivating. Landscapers like it for plowing, grading, seeding and mowing. Dearborn Equipment to handle these and other jobs attaches quickly and easily.

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one job to another—needs no trailer for transportation. And attached equipment rides on the tractor—operates hydraulically at the touch of a finger.

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For all it has and for all it can do, the Ford Tractor is priced surprisingly low. You get lower operating cost, too . . . Ford's low friction engine saves on gas, oil and upkeep expense. Find out soon how you can do more jobs faster, *easier* with a Ford Tractor and Dearborn Equipment. To see this team work *on your own jobs*, call your local Ford Tractor Dealer or write to the address below. No obligation, of course!



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PENNSYLVANIA EVERGREEN SEEDLINGS

grown at high altitude, in the heart of the
ORIGINAL PENNSYLVANIA PINE FORESTS

Pine Seedlings		Per 100	Per 1000
Scotch Pine, Riga, 2-0, 2 to 4 ins.		\$ 2.00	\$ 12.50
2-0, 4 to 8 ins.		4.00	25.00
3-0, 6 to 8 ins., well-budded, not branched.		4.50	27.50
3-0, 8 to 16 ins., very good.		6.00	35.00
American Red Pine, 3-0, 4 to 6 ins.		4.00	25.00
3-0, 6 to 9 ins.		6.00	35.00
Japanese Red Pine, 3-0, 8 to 16 ins.		5.00	30.00
Austrian Pine, 2-0, 3 to 5 ins.		4.00	25.00
3-0, 8 to 14 ins., very good.		6.00	35.00
White Pine, 2-0, 3 to 5 ins.		3.50	20.00
3-0, 5 to 10 ins.		6.00	35.00
Mugho Pine (True Dwarf Tyrolean) 2-0, 2 to 4 ins.		3.50	25.00
Mugho Pine (True Dwarf Tyrolean) 3-0, 3 to 5 ins.		6.00	35.00
Mugho Pine 4-0, 4 to 8 ins.		8.00	....

Spruce Seedlings			
Norway Spruce, 2-0, 4 to 6 ins.		2.50	15.00
3-0, 6 to 10 ins.		4.50	30.00
3-0, 10 to 16 ins.		6.00	40.00
Colorado Blue Spruce, 2-0, 2 to 4 ins.		3.00	20.00
2-0, 4 to 6 ins.		5.00	35.00
3-0, 3 to 5 ins.		6.00	40.00
3-0, 5 to 9 ins.		7.00	50.00
Red Spruce, 2-0, 3 to 5 ins.		3.00	20.00
3-0, 5 to 9 ins.		4.00	30.00
3-0, 9 to 12 ins.		6.00	35.00
White Spruce, 2-0, 3 to 5 ins.		3.00	20.00
3-0, 5 to 9 ins.		5.00	35.00
Black Spruce, 3-0, 4 to 6 ins.		3.00	20.00
3-0, 6 to 10 ins.		5.00	30.00

Fir Seedlings			
Balsam Fir, 3-0, 3 to 6 ins.		6.00	40.00

Larch Seedlings			
Japanese Larch, 3-0, 8 to 16 ins.		5.00	40.00
European Larch, 3-0, 7 to 16 ins.		5.00	40.00
3-0, 16 to 24 ins.		10.00	....

Hemlock Seedlings			
Canadian Hemlock, 2-0, 3 to 6 ins.		5.00	35.00
3-0, 6 to 12 ins.		8.00	60.00
4-0, 12 to 20 ins.		15.00	100.00

Arborvitae			
American Arborvitae, 2-0, 3 to 5 ins.		3.00	20.00
3-0, 5 to 8 ins.		5.00	35.00

Cedar Seedlings			
Red Cedar, 2-0, 4 to 8 ins.		4.00	20.00
2-0, 8 to 12 ins.		5.00	30.00

Chestnut Seedlings (blight-resistant)			
		10 Lots	100 Lots
Chestnut, 1-0, 8 to 14 ins.		\$0.15 ea.	\$0.12 ea.
2-0, 12 to 24 ins.		.20 ea.	.18 ea.
			.15 ea.

Transplant listing will be sent on request.

We have for this season Riga strain Scotch Pine seedlings, the best strain known for select and fastest-growing CHRISTMAS TREES.

It Pays to Plant the Best

Excellent Root Systems; Hardy. ORDER NOW!

Why not make a planting of Scotch this season? It will pay you large dividends.

All stock offered subject to prior sale; all seedlings or transplants subject to 5 per cent discount on 25,000 or more.

Exclusive of 2 to 4-in. Scotch Pine and 4 to 6-in. Norway Spruce.

SCHROTH'S NURSERY

INDIANA, PA.

— SEEDLINGS OF QUALITY —

at one time tried some jujube. It grows into a small tree similar to the pagoda tree and has green berrylike fruit. The Japanese persimmon, when grown successfully, is positively beautiful, with its deep orange fruit and shiny green leaves.

In the subtropical parts of the country, the edible fruits are more likely to be ornamental than those in our temperate climates. In Florida, all of the citrus fruits are showy and are valued not only for their fruits but also for their flowers and shiny green foliage.

So, while it may be necessary to awaken our clients from some of their daydreams, it is possible, with some effort, to give them some of the ornamental features they desire.

PLANTS WILL HIGHLIGHT AUTOMOBILE SHOW

The annual automobile show, to be held April 6 to 11, at the Waldorf-Astoria hotel, New York city, will feature a mammoth exhibit of 10,000 wild plants, shrubs, bushes and trees, a preview of spring representative of the flora of every section of the United States. Approximately 500 different varieties of native plants, ranging from delicate lacy ferns to sturdy towering trees, will make up the display. All will be commercially grown and shown in their natural settings as living reminders to automobile travelers of the splendors of nature to be seen along the nation's highways.

Most of the plants will be shown in 35 groupings, as they grow in various sections of the country. Typical of these will be a beech and maple forest, with brightly blooming dogwoods, dainty white-flowered trilliums, green ferns and striking blue liverworts.

The display will be set up by Dr. Edmund Gunther, an authority on American wild flora.

WICHITA GROUP FORMS

The Wichita Nurserymen's Association was recently organized by a group of Wichita, Kan., nurserymen in order to promote and encourage homeowners' participation in gardening and foster a greater use of nursery products.

The group will attempt to improve and standardize nursery products by engaging in activities which will enhance the efficient progress of the industry, and it will also acquaint the homeowners in a general manner with plants best suited for their locality.

KELLY BROS. NURSERIES, INC.

DANVILLE, N. Y.

Phone 764 — 765

AVAILABLE FOR IMMEDIATE SHIPMENT

APPLE STANDARD, 2-YR.

	Per 10	Per 100
11/16-in. cal. and up.....	65c	60c
9/16 to 11/16-in. cal.....	55c	50c
7/16 to 9/16-in. cal.....	45c	40c
11/16-in. 9/16-in. 7/16-in. cal. cal. cal.		
Cortland	500	100
Gullia Beauty	200	100
Lodi	100	100
Melba	150	50
Northern Spy	100	100
Red Astrachan	100	50
Red Gravenstein	200	100
Red Rome Beauty	300	500
Red Spy	50	300
Rome Beauty	500	400
Yellow Delicious	400	200
Yellow Transparent	100	200
York Imperial	100	50

5-N-1 Apple 150 11/16-in. cal. Each \$1.65

PEAR STANDARD, 2-YR.

	Per 10	Per 100
11/16-in. cal. and up.....	80c	75c
9/16 to 11/16-in. cal.....	70c	65c
7/16 to 9/16-in. cal.....	55c	50c
11/16-in. 9/16-in. 7/16-in. cal. cal. cal.		
Anjou	100	200
Bartlett	300	200
Beurre Bosc	200	300
Clapp's Favorite	200	200
Duchess	200	100
Flemish Beauty	200	200
Kieffer	200	400
Seckel	200	300
Sheldon	200	300
Tyson	200	100

PEAR DWARF, 2-YR.

	Per 10	Per 100
5/16 to 7/16-in. cal. 2 to 2½ ft.	60c	50c
3/16 to 5/16-in. cal. 2 ft.	50c	35c
5/16-in. cal. 3/16-in. cal.		
Bartlett	500	500
Clapp's Favorite	200	150
Seckel	200	250

PEACH, 1-YR.

	Per 10	Per 100
11/16-in. cal. and up.....	70c	65c
9/16 to 11/16-in. cal.....	60c	55c
7/16 to 9/16-in. cal.....	45c	40c
5/16 to 7/16-in. cal.....	35c	30c
11/16 9/16 7/16 5/16 -in. -in. -in. -in. cal. cal. cal. cal.		
Elberta	100	200
Golden Jubilee	100	300
Halchaven	100	100

APRICOTS

	Per 10	Per 100
11/16-in. cal.	\$1.10	\$1.00
11/16-in. cal.		
Moorpark	100	
Early Golden	100	

SOOR CHERRY, 2-YR.

	Per 10	Per 100
1-in. cal.	90c	85c
11/16-in. cal.	80c	75c
9/16 to 11/16-in. cal.	70c	65c
7/16 to 9/16-in. cal.	55c	50c
11/16 9/16 7/16 -in. -in. -in. cal. cal. cal.		
Early Richmond	100	100
English Morello	200	400
Montmorency	400	1000

ORANGE QUINCE, 2-YR.

	Per 10	Per 100
11/16-in. cal. and up.....	\$1.10	\$1.00
9/16 to 11/16-in. cal.....	.85	.80
7/16 to 9/16-in. cal.....	.65	.60
5/16 to 7/16-in. cal.....	.50	.35
11/16 9/16 7/16 5/16 -in. -in. -in. -in. cal. cal. cal. cal.		
Orange Quince	200	300

FLOWERING CRAB APPLES

	Each	Per 10	Per 100
ARNOLDIANA			
100 4 to 5 ft.	\$ 1.20	\$ 1.10	
200 3 to 4 ft. ....	.85	.80	
50 3 ft. ....	.75	.65	
BECHTEL			
200 4 to 5 ft.	1.25	1.10	
100 2 to 3 ft. ....	.65	.60	
ELEYI			
100 5 to 6 ft.	1.50	1.35	
100 4 to 5 ft.	1.20	1.10	
200 3 to 4 ft. ....	.85	.80	
FLORIBUNDA			
pink-flowering Crab Apple			
300 5 to 6 ft.	1.50	1.35	
400 4 to 5 ft.	1.20	1.10	
100 3 to 4 ft. ....	.85	.80	
HOPA			
200 5 to 6 ft.	1.50	1.35	
200 4 to 5 ft.	1.20	1.10	
100 3 to 4 ft. ....	.85	.80	
SCHNEIDERI			
130 5 to 6 ft.	1.50	1.35	
15 4 to 5 ft.	1.20	1.10	
SIEBOLDI			
169 4 to 5 ft.	1.20	1.10	
72 3 to 4 ft. ....	.85	.80	
47 3 ft. ....	.75	.65	
ZUMI			
33 3 to 4 ft. ....	.85	.80	
31 3 ft. ....	.75	.65	
ZUMI CALOCARPA			
369 4 to 5 ft.	1.20	1.10	
203 3 to 4 ft. ....	.85	.80	
127 3 ft. ....	.75	.65	

ORNAMENTAL TREES

	Per 10	Per 100
PRUNUS NEWPORT, purpleleaf		
200 5 to 6 ft.	\$12.50	\$110.00
200 4 to 5 ft.	11.00	95.00
PRUNUS PISSARDI		
200 5 to 6 ft.	12.50	110.00
100 4 to 5 ft.	10.00	95.00
PRUNUS VEITCHI		
100 5 to 6 ft.	12.50	110.00
100 4 to 5 ft.	10.00	95.00

SHADE TREES

	Each	Per 100
CHINESE ELM		
200 6 to 8 ft.	\$ 1.00	\$ 100.00
200 10 to 12 ft.	1.50	150.00
WEeping WILLOW, WISCONSIN		
300 6 to 8 ft.	1.10	110.00
200 8 to 10 ft.	1.25	125.00

ORNAMENTAL SHRUBS

	Per 10	Per 100
REDLEAF BARBERRY		
500 12 to 15 ins.	\$ 3.50	\$ 30.00
500 15 to 18 ins.	4.50	40.00
700 18 to 24 ins.	5.50	50.00
500 2 to 3 ft.	6.50	60.00
CORALBERRY, CHENAUT		
200 18 to 24 ins.	3.00	25.00
300 2 to 3 ft.	3.50	30.00
200 3 to 4 ft.	4.50	40.00
DEUTZIA GRACILIS		
400 15 to 18 ins.	3.50	30.00
100 12 to 15 ins.	4.50	40.00
FORSYTHIA SPECTABILIS		
100 18 to 24 ins.	4.50	40.00
FORSYTHIA SPRING GLORY		
450 2 to 3 ft.	5.50	50.00
100 18 to 24 ins.	4.50	40.00
HONEYSUCKLE, BELLA ALBIDA, white		
400 4 to 5 ft.	5.50	50.00
HONEYSUCKLE, TATARIAN, pink		
200 2 to 3 ft.	5.00	45.00
100 3 to 4 ft.	5.50	50.00
HONEYSUCKLE, ZABELI, red		
200 13 to 24 ins.	3.80	35.00
HYDRANGEA A. G.		
100 18 to 24 ins.	5.00	45.00
HYDRANGEA P. G.		
300 12 to 18 ins.	3.00	25.00
PHILADELPHUS CORONARIUS		
300 2 to 3 ft.	5.00	45.00
100 18 to 24 ins.	4.50	40.00
RHODOTYPUS KERRIODES, Jethead (White Kerria)		
60 2 to 3 ft.	6.50	60.00
75 18 to 24 ins.	3.50	30.00
SPIRAEA BILLIARDI		
480 3 to 4 ft.	5.50	50.00
SPIRAEA FROEBELI		
250 18 to 24 ins.	4.00	35.00
SPIRAEA VANHOUTTEI		
1000 2 to 3 ft.	5.00	45.00
1000 18 to 24 ins.	4.00	35.00
500 12 to 18 ins.	3.00	25.00
TAMARIX GALICA		
200 3 to 4 ft.	5.00	40.00
150 18 to 24 ins.	4.00	35.00
VIBURNUM OPLUS STERILE, Common Snowball		
200 13 to 24 ins.	5.50	50.00

Shipment now or as needed. Regular terms—2% discount for remittance with order. Boxing and baling at cost.

Send us your complete list of wants on Fruit Trees, Shrubs and Ornamental Trees. We have many more items available.

JEWELL

Ornamental Birch and Crab Apple

	Per 10	Per 100
650 Cutleaf Weeping Birch, 8 to 10 ft.....	\$30.00	\$275.00
500 White Canoe Birch, 8 to 10 ft.....	20.00	180.00
150 White Canoe Birch, 1 1/4 to 1 1/2-in. cal.....	25.00	230.00
260 Bechtel Crab Apple, 3 to 4 ft.....	10.00	95.00
100 Bechtel Crab Apple, 4 to 5 ft.....	14.00	135.00
400 Eley Crab Apple, 2 to 3 ft.....	5.00	45.00
700 3 to 4 ft.....	7.50	70.00
270 4 to 5 ft.....	10.00	95.00
900 Hopa Crab Apple, 3 to 4 ft.....	7.00	65.00
470 4 to 5 ft.....	9.00	85.00
250 5 to 6 ft.....	12.50	110.00
120 Klehm Crab Apple, 2 to 3 ft.....	7.00	65.00
170 Klehm Crab Apple, 3 to 4 ft.....	10.00	95.00
200 Red Silver Crab Apple, 2 to 3 ft.....	5.00	45.00
320 3 to 4 ft.....	7.50	70.00
340 4 to 5 ft.....	10.00	95.00

Ornamental Shrubs

	Per 10	Per 100		Per 10	Per 100
Pink Almond			Philadelphus Lemoinei		
480 2 to 3 ft.....	\$6.00	\$55.00	600 18 to 24 ins.....	\$3.50	\$30.00
Thornless Barberry			1700 2 to 3 ft.....	4.50	40.00
300 9 to 12 ins.....	2.00	18.00	Philadelphus Minnesota Snowflake		
200 12 to 15 ins.....	2.80	25.00	(Plant Pat. No. 538)		
250 15 to 18 ins.....	4.00	35.00	650 2 to 3 ft.....	7.00	65.00
600 18 to 24 ins.....	5.00	45.00	1100 3 to 4 ft.....	9.00	85.00
Caryopteris (Blue Spiraea)			Philadelphus Virginialis		
600 field, No. 1.....	4.00	35.00	1100 12 to 18 ins.....	3.50	30.00
Cotoneaster Divaricata			600 18 to 24 ins.....	4.50	40.00
300 12 to 18 ins.....	4.00	35.00	Alpine Currant		
900 18 to 24 ins.....	6.00	55.00	1500 9 to 12 ins.....	3.50	30.00
1200 2 to 3 ft.....	8.50	80.00	Spiraea Anthony Waterer		
Deutzia Gracilis			1000 9 to 12 ins.....	2.80	25.00
1100 9 to 12 ins.....	3.00	25.00	Spiraea Froebeli		
Hydrangea A. G.			1900 12 to 18 ins.....	2.40	20.00
870 12 to 18 ins.....	3.50	30.00	1200 18 to 24 ins.....	3.20	28.00
400 2 to 3 ft.....	6.00	55.00	Spiraea Prunifolia		
Hydrangea P. G.			300 18 to 24 ins.....	3.20	30.00
700 12 to 18 ins.....	3.20	28.00	700 2 to 3 ft.....	4.50	40.00
420 2 to 3 ft.....	6.00	55.00	Spiraea Thunbergi		
Kolkwitzia (Beauty Bush)			500 18 to 24 ins.....	3.50	30.00
400 12 to 18 ins.....	3.50	30.00	Tamarix Hispida		
360 18 to 24 ins.....	5.00	45.00	420 4 to 5 ft.....	6.50	60.00
Lilac, Persian Purple			Viburnum Dentatum		
600 18 to 24 ins.....	2.80	25.00	400 18 to 24 ins.....	3.50	32.00
2700 2 to 3 ft.....	4.00	35.00	Weigela Bristol Ruby		
Lilac, Rothomagensis			(Plant. Pat. No. 492)		
740 18 to 24 ins.....	3.50	30.00	380 2 to 3 ft.....	7.00	60.00
2300 2 to 3 ft.....	4.50	40.00	Weigela Rosea		
Philadelphus Bouquet Blanc			300 2 to 3 ft.....	4.50	40.00
300 18 to 24 ins.....	3.50	30.00			
500 2 to 3 ft.....	4.50	40.00			

JEWELL NURSERIES, INC.

Box 457

LAKE CITY, MINN.

COVER ILLUSTRATION

Viburnum Tomentosum Rotundifolium

Most plantsmen are familiar with the doublefile viburnum, *Viburnum tomentosum*, and the Japanese snowball viburnum, *Viburnum tomentosum* sterile, but *Viburnum tomentosum rotundifolium*, the roundleaf doublefile viburnum, is less well-known. It differs from the Japanese snowball viburnum mainly in flower and leaf characteristics.

The roundleaf doublefile viburnum is upright-spreading in its habit of growth and exhibits a growth habit similar to that of the Japanese snowball. Neither of these two varieties is as horizontal in branching habit as the species, *Viburnum tomentosum*. The maximum height of the roundleaf doublefile viburnum is about 10 feet. A good illustration of a young plant is seen on the cover of this issue of the American Nurseryman.

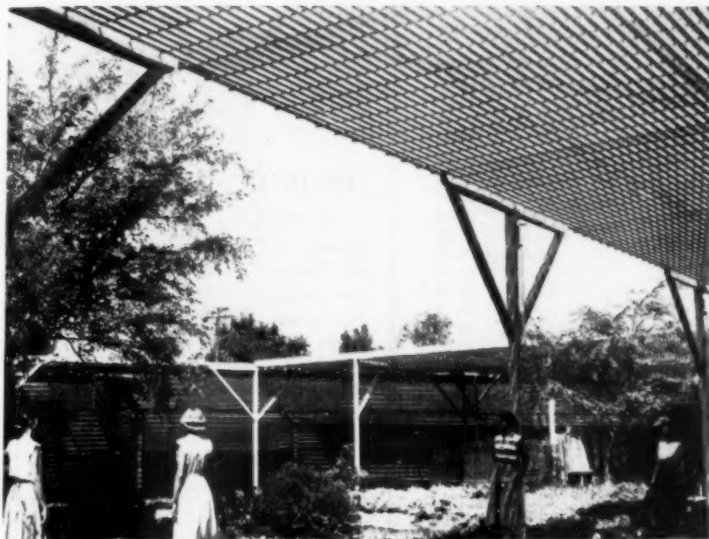
Viburnum tomentosum is a native of Japan and China and was introduced to the trade about 1865. The variety was first described by Rehder. The generic name, viburnum, is the ancient Latin name of *Viburnum lantana*; the species name, tomentosum, refers to the tomentose, or densely hairy, condition of the young twigs of this plant, and the varietal name, rotundifolium, refers to the roundish leaf shape of this variety.

The leaves of the roundleaf doublefile viburnum are broadly ovate to broadly oblong ovate, mostly two and one-half to four inches long, somewhat less in width, and abruptly acuminate. The flowers are double, sterile and resemble those of the Japanese snowball. They appear two weeks earlier than those of the Japanese snowball. Because of this viburnum's earlier blooming habit, it is useful to combine with the Japanese snowball to extend the flowering season of the snowball type of viburnum. The roundleaf doublefile viburnum does not set fruit because of its sterile flowers, but it does exhibit a good reddish-purple fall foliage color.

Like most of the viburnums, this variety should be given good soil, especially when it is first transplanted. In poor soils viburnums respond slowly but, once established, are tolerant of adverse conditions. This variety will do well in sun or at least half shade. Best flowers are produced in sunny situations, and the fall foliage will also be more pleasing where sun is plentiful. It is hardy in zone 4 of Rehder, transplants readily, requires little pruning and is free from

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LARGE RETAIL NURSERY DISPLAY.

MILLIONS OF FEET IN USE AND YEARS OF SERVICE IN EVERY PART OF THE COUNTRY HAVE PROVED ITS SUPERIORITY.

The pictures show a few installations, others cover many diversified uses of AlumaLath shading—large and small commercial displays, parking lots, car ports, open air theaters, turnstiles, dog kennels, park benches and many others. Everyone recommends AlumaLath for its low cost, ease of erection, no maintenance, long service and attractive appearance.



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Greenhouse operators, large and small, find that AlumaLath gives the proper shading for better plant growth. The shade is uniform throughout the greenhouse and the intensity is uniform throughout the entire day.

AlumaLath does not absorb the heat, but reflects it and, with our design, gives perfect ventilation.

The diffused reflected light of minimum light loss improves the beauty of plants and flowers.

AlumaLath is not affected by the atmosphere, for it is the modern building material, ALUMINUM.

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They will be glad to tell you why, write us for their names.

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House is ft. long, ft. wide
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GRAFTED STOCK FOR SPRING, 1954 DELIVERY

Grafts are normally ready for shipment after April 15th. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

	Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.50	\$65.00
<i>Acer palmatum dissectum atropurpureum</i>	7.50	65.00
<i>Cedrus atlantica glauca</i>	7.50	65.00
<i>Cornus florida alba plena</i>	6.00	50.00
<i>Cornus florida rubra</i>	6.00	50.00
<i>Cornus florida rubra Prosser</i>	7.50	65.00
<i>Cryptomeria lobbi compacta</i>	7.00	60.00
<i>Ilex opaca femina</i>	7.00	60.00
<i>Juniperus chinensis columnaris glauca</i>	6.00	50.00
<i>Juniperus chinensis columnaris viridis</i>	6.00	50.00
<i>Juniperus chinensis keteleeri</i>	6.00	50.00
<i>Juniperus chinensis neoboriensis</i>	6.00	50.00
<i>Juniperus chinensis sargentii</i>	6.00	50.00
<i>Juniperus chinensis sargentii glauca</i>	6.00	50.00
<i>Juniperus sabina Von Ehron</i>	6.00	50.00
<i>Juniperus squamata meyeri</i>	6.00	50.00
<i>Juniperus virginiana burki</i>	6.00	50.00
<i>Juniperus virginiana canaerti</i>	6.00	50.00
<i>Juniperus virginiana elegantissima</i>	6.00	50.00
<i>Juniperus virginiana glauca</i>	6.00	50.00
<i>Juniperus virginiana kostermaniana</i>	6.00	50.00
<i>Juniperus virginiana pyramidiformis hillii</i>	6.00	50.00
<i>Juniperus virginiana schottii</i>	6.00	50.00
<i>Magnolia lennei</i>	7.50	65.00
<i>Magnolia rustica rubra</i>	7.50	65.00
<i>Magnolia soulangeana</i>	7.00	60.00
<i>Magnolia soulangeana nigra</i>	7.00	60.00
<i>Magnolia stellata</i>	7.00	60.00
<i>Magnolia stellata rosea</i>	7.00	60.00
<i>Magnolia stellata rubra</i>	7.50	65.00
* <i>Pinus cembra</i>	6.50	55.00
<i>Thuja occidentalis douglasii spiralis</i>	5.00	40.00
<i>Thuja occidentalis elegantissima</i>	5.00	40.00
<i>Thuja occidentalis lutea Mary Corey</i>	5.00	40.00
<i>Thuja occidentalis lutea Geo. Peabody</i>	5.00	40.00
<i>Thuja occidentalis nigra</i>	5.00	40.00
<i>Thuja occidentalis pyramidalis</i>	5.00	40.00
<i>Thuja occidentalis rosenthalii</i>	5.00	40.00
<i>Thuja occidentalis wareana sibirica</i>	5.00	40.00
<i>Thuja orientalis aurea nana</i>	5.00	40.00
<i>Thuja orientalis conspicua</i>	5.00	40.00
<i>Thuja orientalis elegantissima</i>	5.00	40.00
<i>Tsuga canadensis pendula</i>	6.00	50.00

*Five needle Pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

Prices are F.O.B. Mountain View, N. J.; packing additional, at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

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ROSA MULTIFLORA JAPONICA

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BROOKVILLE NURSERIES GLEN HEAD, N. Y.

AMERICAN NURSERYMAN

pests. It can be propagated by soft-wood cuttings.

The roundleaf doublefile viburnum will be of use to extend the flowering season of the Japanese snowball. It can be used in beds or borders or in foundation plantings where a plant of this height is suitable. It is not generally considered superior to the Japanese snowball.

L. C. C.

MICHIGAN STATE RESEARCH

On February 17 the research committee of the Michigan Association of Nurserymen held a luncheon meeting at the Union Parlors, at Michigan State College, to learn what research was being undertaken on their behalf at the present time and to offer suggestions relative to present and future needs of the nursery industry.

After a lengthy discussion of the many problems in which the group was interested, the committee singled out one as being most urgent to the nursery industry of the state. This problem concerns propagation. The committee suggested a study of (a) influence of temperature and humidity on rooting, (b) influence of time of taking cuttings on rooting, (c) the comparison of common rooting media and (d) the method of hardening rooted cuttings before transplanting.

It was further suggested that this investigation be directed mainly to the following plants: *Viburnum burkwoodii*, *V. carlesii*, *V. tomentosum plicatum*, *Acer palmatum atropurpureum*, *Philadelphus coronarius aureus* and a clematis cultivar.

This proposed project was presented to the Michigan State College department of horticulture and a request was made to the Michigan State experiment station for personnel to be made available to undertake this research. The research committee of the Michigan Association of Nurserymen also expressed its interest in sponsoring a fellowship for additional research work with nursery crops.

UNIQUE WINDBREAK

Piero Balzarini, Five Corners Nurseries Landscaping, Seattle, collects unsold Christmas trees, sharpens their trunks and drives them into the ground to make a dense screen around his rhododendron fields. This provides sufficient windbreak to eliminate all danger of winter wind burn.

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Berckmans Arborvitae
 24 to 30 ins. . . . \$1.35 (40 lbs.)
 other sizes . . . 1.15 (30 lbs.)
 18 to 24 ins. . . . 1.65 (70 lbs.)
 30 to 36 ins. . . . 2.25 (110 lbs.)
 42 to 48 ins. . . .



Irish Juniper
 30 to 36 ins. . . . \$1.50 (40 lbs.)
 also
 3 to 4 ft. . . . 1.75 (70 lbs.)



Irish Juniper
 2 1/2 ins., potted liners.
\$150.00 per 1000, including
 paper pots and packing 100 per
 carton.

Juniperus Sylvestris

1-gal. can, 18 ins. **60c** (8 lbs.)
 A good item to us for advertising.



Purple Honeysuckle

1-gal. can, **50c** (8 lbs.) This is improved Hall's Honeysuckle. Just as hardy and much prettier. Widely used in southwest for plant boxes. Blooms well and grows compact. Fills the need for a low grower.

Hume Holly No. 2

4 to 5 ft., **\$2.25** (70 lbs.). This is fast-growing hybrid American Holly. Does well in eastern Texas to Tulsa, Memphis and east to coast. Propagated from berried stock only. Root-pruned last year. Wilt-proofed when dug. Good for hedges and specimen plantings.



Arizona Cypress

30 to 36 ins. . . . **\$1.50** (40 lbs.)
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 3 to 4 ft. . . . **2.00** (70 lbs.)
 Grafted stock, nicely sheared. Uniform color and growth. Best Arizona Cypress in south for the south and west.

ALL VERHALEN stock is in treated burlap. We help to solve your heelyard troubles. Cans are painted for better appearance and longer life.

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Your Profits Grow in Verhalen Plants

Rhode Island Group Meets

By Arthur S. Lewis

Edward Pagliarini, of Warwick Nurseries, Cranston, was elected president of the Rhode Island Nurserymen's Association at its 35th annual meeting, held Tuesday, February 23, at the Johnsons Hummocks grill, Providence. A large attendance was on hand, including visiting associate members from Connecticut and Massachusetts.

The other officers elected were C. Hoogendoorn, Newport, vice-president; K. J. Murphy, East Providence, treasurer, and Anthony Williams, Cranston, secretary. Jack C. Brownell, Newport; Arthur S. Lewis, East Providence, and Robert Kempenaar, Newport, were elected to the executive committee.

President Jack Brownell greeted the members at the opening of the meeting with a few remarks, urging the members to discuss the pros and cons of various matters during the meeting and not outside after the session. He also gave words of praise to all committee members for their cooperation and especially congratulated the association as a whole for the tremendous increase in membership.

Secretary Anthony Williams, Forest Hills Nurseries, Cranston, read an interesting report of the association's activities.

The association's genial treasurer, K. J. Murphy, East Providence Nurseries, East Providence, read the financial report, and it was noted that the association's bank balance is becoming larger and larger every year.

New Members

The membership committee's report, read by its chairman, Robert Kempenaar, Boulevard Nurseries, Newport, informed the assembly that there were 12 candidates to be considered for membership in the organization; all were later voted upon and accepted.

The publicity committee's report was given by its chairman, Arthur S. Lewis, Cedarhurst Nurseries, East Providence.

The 4-H committee's reports were given by its chairman, Robert Stewart, Stewart's Nursery, Wakefield. Mr. Stewart suggested that an increase in the amount of the awards be given some consideration. An open discussion ensued, with suggestions coming from L. F. Kinney, Jr., state leader of the 4-H Clubs, and Case

Hoogendoorn, Hoogendoorn's Nursery, Newport. One of these suggestions was that the executive committee consider the awarding of prizes not only to the 4-H Clubs but also to individual members of the clubs.

Alfred L. Angel, Newport, chairman of the executive committee, spoke on the dangers confronting the Rhode Island nurserymen in connection with Rhode Island's unincorporated business tax.

The law for the year 1950 reads thus: "Instruction 7. Dealers in farm produce, animals, seafood, fruit, etc., must report and pay on gross receipts from sales of that which was bought and sold, but do not include receipts from sales of their products when produced or raised by them. However, those engaged in the floral or plant nursery business must include

gross receipts from sales of their products whether or not such products are produced or raised by them."

The last sentence was regarded as discriminatory against the nurserymen.

Frank Feighery, Pawtucket, who is on the advisory committee to William H. Cotter, Jr., administrator of the Rhode Island division of parks and recreation, informed the association members of the possibility of "spot beautification" of recreation areas throughout the state and also of a shrub and evergreen display to be set up at Goddard park. The plants for the display would be donated by Rhode Island nurserymen.

Awards to 4-H Clubs

L. F. Kinney spoke on 4-H work and presented the Rhode Island Nurserymen's Association 4-H home landscaping awards. The awards for 1953 went to the following individual members: To Lucius Eldredge III, East Greenwich, a \$10 scholarship to the state 4-H camp, and to

QUEEN O' the LAKES

(Dark Velvety Red)

and 30 other fragrant

SUB-ZERO

HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Tree Roses topped with all varieties can survive 15 degrees below zero without protection.

also 20

Yellow and Orange Climbers

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LITTLE COMPTON, R. I.



HYBRID RHODODENDRON

Best Named Varieties

Sizes 12 to 36 ins.

RICKERT NURSERIES

MORRISVILLE, PA.

Originators of Moon's Taxus Columnaris

SHEPARD NURSERIES

Growers and Distributors of

ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing. Skaneateles, N. Y.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

TAXUS

Upright, 4 to 14 ft.

Truckloads only, no boxing.

BULK'S NURSERIES

BABYLON, L. I., N. Y.



Knock Out Turf Pests

with dieldrin

A single application of this powerful insecticide controls the major turf pests for years

Here's a sure way to save labor and expense on large scale applications of insecticide to turf. Use *dieldrin* . . . and get sub-surface turf pest control for years on end *with just one application!*

Count on dieldrin to stop Japanese beetle grubs, white grubs, lawn chinch bugs, ants and other turf destroyers. Dieldrin is easy to use and will not harm the finest grass.

It comes in four formulations. The one you use depends on the application equipment you have.

Dieldrin Granules: The latest formulation, dieldrin granules, can be applied in combination with fertilizer. Or in clay or tobacco carrier they can be applied as a separate application. Dieldrin granules are easy to apply . . . and they get down to the roots where the pests are.

25%-50% Dieldrin Wettable Powder: For use in high volume sprayers where large quantities of water are used. Ideal for application to large areas.

1.5 lb. Dieldrin Emulsible Concentrate: For low volume sprayers . . . only requires a fraction of the water required in larger equipment . . . for greater economy in applications to smaller areas.

Dieldrin Dusts: For use with conventional dust equipment . . . dieldrin dusts are even-textured and smooth-flowing.

Regardless of which formulation is best suited to your needs, you can depend on dieldrin to do the job. Technical information on dieldrin is available. Please write to:

SHELL CHEMICAL CORPORATION

AGRICULTURAL CHEMICALS DIVISION

P. O. BOX 1617, DENVER 1, COLORADO

Atlanta • Houston • Los Angeles • New York • San Francisco • St. Louis • Jackson, Miss. • Portland, Oregon



ROSEBUSHES

Stored under ideal conditions for shipment when you want them. Free labels with each bush. Large, colored pictures to help you sell, 5c each.

	Retail Each
Applause (Pat. No. 829). Large, fragrant light red.....	\$2.00
Buccaneer (Pat. No. 119). Clear, bright yellow.....	2.75
Capistrano (Pat. No. 992). Deep glowing pink.....	2.25
Chrysler Imperial (Pat. No. 1167). Rich crimson-red.....	2.75
Charlotte Armstrong (Pat. No. 455). Red, varying as the flower opens.....	2.25
Diamond Jubilee (Pat. No. 824). Glowing buff-orange.....	2.00
Eclipse (Pat. No. 172). Slender, clear yellow buds.....	1.75
Forty-Niner (Pat. No. 792). Vivid bicolor. Petals chrome-yellow outside, red inside.....	2.50
Fred Howard (Pat. No. 1006). Rich yellow.....	2.50
Golden Scepter (Pat. No. 910). Unfading golden-yellow.....	2.00
Goldilocks (Pat. No. 672). Golden-yellow floribunda.....	1.50
Grande Duchesse Charlotte (Pat. No. 774). Beautiful light red.....	2.00
Hear's Desire (Pat. No. 501). Luminous red.....	1.75
Helen Traubel (Pat. No. 1028). Sparkling pink.....	2.75
Katherine T. Marshall (Pat. No. 607). Warm, glowing pink.....	1.75
Lowell Thomas (Pat. No. 595). Clear canary-yellow.....	2.00
Ma Perkins (Pat. No. 1143). Soft, rich pink.....	2.25
Mary Margaret McBride (Pat. No. 507). Deep coral-pink.....	1.75
Mirandy (Pat. No. 632). Rich dark red with black shadings.....	2.25
Nocturne (Pat. No. 713). Cardinal-red with deeper shadings.....	2.00
Peace (Pat. No. 591). Most popular rose of all time.....	2.50
Pinochio (Pat. No. 484). Coral-pink floribunda.....	1.50
Rubaiyat (Pat. No. 755). Marvelous fragrance is the feature of this light red.....	1.75
San Fernando (Pat. No. 785). Glowing currant-red.....	1.75
Sutler's Gold (Pat. No. 885). Yellow shaded orange and red.....	2.25
Suzon Lotthe (Pat. No. 934). Soft peach-pink with deeper shadings.....	2.50
Taffeta (Pat. No. 716). Variable rose-pink.....	2.00
Tallyho (Pat. No. 828). Crimson and pink tones. Fragrant.....	2.00
Vogue (Pat. No. 926). Brilliant coral-rose floribunda.....	2.00

PATENTED ROSE PRICES 2-year No. 1

Each	Wholesale (Per Variety)			
	Each	Each	Each	Each
\$2.75.....	1 to 9	10 to 19	20 to 99	100 to 249
2.50.....	\$1.75	\$1.50	\$1.37½	\$1.30
2.25.....	1.60	1.40	1.25	1.20
2.00.....	1.40	1.25	1.12½	1.05
1.75.....	1.25	1.10	1.00	.95
1.50.....	1.15	1.00	.87½	.80
	1.00	.90	.75	.70

2-yr., No. 1½ grade, excellent for potting 20 per cent less than No. 1 price.
Send for complete Rose List.

Special Collection, 120 No. 1 Rosebushes

12 Standard varieties, 10 each. Good assortment of colors, our selection.
No. 1 Grade, \$70.00 No. 1½ Grade, \$55.00

Somerset
P. O. Box 608,

SEEDS PLANTS

New Brunswick, N. J.

EVERGREENS CHRISTMAS TREE REFORESTATION

Seedlings—Transplants

	Per 100	Per 1000
COLORADO BLUE SPRUCE		
2-yr., 2 to 4 ins.....	\$4.00	\$25.00
MUGHO PINE		
3-yr., 3 to 6 ins.....	5.00	25.00
SCOTCH PINE		
2-yr., 2 to 4 ins.....	3.00	12.50
2-yr., 2 to 6 ins., bed run.....	3.50	20.00
2-yr., 4 to 6 ins.....	5.00	22.50

Write for Price List

ECCLES NURSERIES

Box 65, Dept. A. RIMERSBURG, PA.

HARDY NATIVE EVERGREENS

Collected Stock

Canadian Hemlock, American
Arborvitae, Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdls.....	\$1.00	\$ 5.00
3 to 6 ins., sdls.....	2.00	10.00
6 to 9 ins., sdls.....	3.00	20.00
9 to 12 ins., sdls.....	7.00	45.00
12 to 18 ins., sdls.....	9.00	70.00

All first-quality stock, well-rooted
and packed in sphagnum moss.

Send for trade list.

Cash, please.

R. M. COLE

Box 37 CHARLOTTE, VT.

Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

W. - T. Smith Corporation.
Telephone 2689 GENEVA, N. Y.

MAPLE

SUGAR — SCARLET

Write for price list.

BAKER'S NURSERIES
HOOSICK FALLS, N. Y.

Donald E. Wolstenholme, North Scituate, a \$7 scholarship to the state 4-H camp.

A \$15 award was made to the Oaklawn Little Elves 4-H Club, of which Frank H. Noyes, Jr., is leader. Other awards, in smaller amounts, went to the Tiverton Ranger American Club, Edgar F. Brackett, leader; the Portsmouth 4-H seniors, Mrs. Antone Soares, leader; the Little Compton 4-H Club, Mrs. Vida Sylvia, leader, and the Caroline Beavers, Mrs. Marjorie Pearson, leader.

The Rhode Island 4-H Club members were also recognized for their work in the field of landscape gardening through the presentation of the LeRoy Thompson trophies and cash awards, presented by Mr. Thompson in person.

Dr. Jesse De France, of the experiment station, University of Rhode Island, gave an illustrated address on lawns and weed control.

John L. Rego, director of the Rhode Island state department of agriculture, offered his greetings to the nurserymen and congratulated the association on its progress.

Alvin L. Lannon, administrator of the Rhode Island department of entomology and plant industry, put a value of more than a million and a half dollars on the state's nursery business. He also discussed the subject of federal quarantines, citing the federal government's responsibility to protect the agriculture of one state from a pest in another, thereby benefiting both states.

The meeting ended with a most interesting talk on the important aspects of plant propagation, by Martin Van Hof, head of the propagation department, Rhode Island Nurseries, Newport.

FARMERS BUYING AGAIN

Those nurserymen whose customers are in the rural districts, if they have not already noted a better sentiment among the farmers, will be heartened by the reports from farm machinery manufacturers, whose market was in the doldrums the past year, that retail sales in recent weeks suggest that the prewar habit of seasonal buying may be returning in agricultural areas.

Such reports are substantiated by the recall of workers in some of the implement factories within the past two months, and plans are for further rehiring. Large layoffs occurred the past year.

Demand is said to have improved particularly in the southwest, where moisture conditions have improved, after the drought of the past year.

PACKAGED BULBS

EXPERTLY GROWN — CAREFULLY PACKED — ECONOMICALLY PRICED — COLORED LABEL — PLANTING INSTRUCTIONS ON EACH PACKAGE.

The eye-catching pictures, simple planting directions and the extremely low price make these self-selling, space-saving packages a fast-moving, highly profitable line to handle.

Your low-cost price is actually the 1,000 rate on bulk bulbs! No charge is made for packaging! This low price is the result of mass production in packing and distributing—so please do not ask us to break cases. All bulbs are blooming size.

Samples (1 each of the 8 items) will, however, gladly be sent on receipt of **\$3.50**. Shipped postpaid.

Case contains	Variety	Bulbs per pkg.
10 pkgs.	ABYSSINIAN GLADIOLUS	12
10 pkgs.	ANEMONES (Windflower)	20
10 pkgs.	GALTONIAS (Summer Hyacinth)	10
10 pkgs.	GLADIOLUS (Rainbow Mixture)	50
10 pkgs.	MONTBRETIAS (Miniature "Glad")	20
10 pkgs.	OXALIS (Lucky Shamrock)	25
10 pkgs.	RANUNCULI (Asiatic Rose)	20
10 pkgs.	TIGRIDIAS (Shellflower)	20
80 pkgs.	TOTAL	1770 bulbs

SUGGESTED RETAIL
at \$1.00 per pkg. \$80.00
YOUR COST
at 33 $\frac{3}{4}$ c per pkg. 27.00
YOUR PROFIT PER CASE
53.00

YOUR COST: \$27.00 per case (1770 bulbs)

*Retail selling price is merely suggested. Packages can be sold for less if desired and still will show a substantial margin of profit.



GLADIOLUS BULBS

12 No. 1 Bulbs per Box

Colored picture and planting instructions on each box.

Colors available: **Red, Pink, White, Yellow, Lavender** or mixed. Minimum order is 20 boxes. Specify colors, or we will make up an assortment for you.

Prices:

42c each in lots of 20
40c each in lots of 40
38c each in lots of 100



TUBEROUS-ROOTED BEGONIAS

Double, Camellia Type

Belgian-grown. Each package contains 4 different colors, and the 4 varieties are shown in color. Planting instructions on the back. A very attractive and very popular seller. Prices:

50c each in lots of 20
45c each in lots of 100

CANNAS

Each package contains six 2 to 5-eye roots, the equivalent of 18 to 24 plants when divided.

Represented in each package are the best of the new colors in **Red, Orange, Pink** and **Yellow**.

50c each in lots of 20
45c each in lots of 100



DAHLIAS

Large-flowering Dahlias, assorted types and colors. Packed in an attractive colored carton. Each carton will contain six large tubers.

50c each in lots of 20
45c each in lots of 100



GROWERS EXCHANGE, INC.

P. O. BOX 398

**PHONE DETROIT
 Kenwood 3-2936**

FARMINGTON, MICH.

CANALE'S FOREST NURSERY

SHELOCTA, PA.
PHONE 2461

SPECIALISTS IN QUALITY CHRISTMAS TREE SEEDLINGS
MILLIONS GROWN EVERY YEAR

SCOTCH PINE

	Per 100	Per 1000
2-yr., 2 to 4 ins.....	\$2.00	\$10.00
4 to 6 ins.....	4.00	20.00
Riga Scotch Pine		
2-yr., 2 to 4 ins.....	3.00	15.00
4 to 8 ins.....	5.00	25.00
Austrian Pine		
2-yr., 3 to 5 ins.....	4.00	20.00
American Red Pine		
2-yr., 2 to 3 ins.....	3.00	15.00
3 to 5 ins.....	5.00	25.00
Mugho Pine, Dwarf		
2-yr., 1 to 3 ins.....	4.00	20.00
3-yr., 3 to 7 ins.....	8.00	40.00
White Pine		
2-yr., 3 to 6 ins.....	4.00	20.00
Norway Spruce		
2-yr., 3 to 6 ins.....	4.00	20.00

	Per 100	Per 1000
White Spruce		
2-yr., 4 to 7 ins.....	\$5.00	\$25.00
Red Spruce		
3-yr., 3 to 6 ins.....	4.00	20.00
6 to 10 ins.....	7.00	35.00
Blue Spruce		
2-yr., 3 to 5 ins.....	5.00	25.00
4 to 8 ins.....	7.00	35.00
Douglas Fir		
2-yr., 3 to 6 ins.....	5.00	25.00
5 to 10 ins.....	8.00	40.00

Special Seedlings—Cont.

	Per 100	Per 1000
White Spruce		
3-yr., 4 to 8 ins.....	\$ 8.00	\$40.00
Douglas Fir		
3-yr., 4 to 8 ins.....	7.00	.....

These special seedlings are very stocky plants and have an excellent root system.

TRANSPLANTS

Scotch Pine, Riga or Regular.		
2-1, 3 to 6 ins.....	6.00	30.00
Blue Spruce		
2-2, 3 to 5 ins.....	10.00	.....
2-2, 4 to 8 ins.....	12.00	.....

Our Aim
THE BEST, BAR NONE, AT THE MOST REASONABLE PRICE.

SPECIAL SEEDLINGS

Scotch Pine		
3-yr., 5 to 8 ins.....	6.00	30.00
8 to 12 ins.....	8.00	40.00
Red Pine		
3-yr., 4 to 8 ins.....	6.00	30.00

TERMS: Cash or 25% with order, balance C.O.D. 500 at 1000 rate. No charge for packing. 5% discount on orders of 25,000 or more. Write us for discounts on larger orders. Shipping done at planting time in April.

NORTH JERSEY PLANS

The North Jersey Metropolitan Nurserymen's Association, in cooperation with the All-Jersey Florists, will stage the annual flower show at L. Bamberger & Co., Newark, N. J., from March 15 to March 20. The show will be under the direction of Julius E. Roehrs, Rutherford.

The show, which will be held on the main floor of the store, will feature a 40-foot formal spring garden executed by the metropolitan association. Another 40-foot garden will be staged by four or five member firms of the association. The gardens were designed by Martha Schmidt Gibb, J. H. Schmidt & Son, Inc., Millburn.

The All-Jersey Florists will do all the floral decorations, with 15 or 20 firms exhibiting competitive displays. The garden clubs of New Jersey will exhibit floral arrangements and table settings. The cooperation of the various branches of the industry in the project is expected to be of value in making the public horticulturally minded.

A new 12-page brochure, "Better Plants and Their Care," prepared by members of the metropolitan association, has gone to press and will be ready for distribution at the flower show.
E. S. W.

ARNO H. NEHRLING, executive secretary of the Massachusetts Horticultural Society, was elected trustee of the Norfolk County (Mass.) Agricultural school by the governor's council recently.

GRAFTED STOCK FOR 1954

	Per 10	Per 100
CUTLEAF RED JAPANESE MAPLE	\$ 7.50	\$ 65.00
RED JAPANESE MAPLE	7.50	65.00
PINK DOGWOOD	6.00	50.00
RED DOGWOOD (Prosser)	7.50	65.00
VARIEGATED DOGWOOD (Welchi)	7.00	60.00
WEeping WHITE DOGWOOD	7.00	60.00
MAGNOLIA LENNEI	7.50	65.00
MAGNOLIA RUSTICA RUBRA	7.50	65.00
MAGNOLIA STELLATA	7.00	60.00
MAGNOLIA STELLATA ROSEA	7.00	.....
DWARF WHITE PINE (nana)	6.00	50.00
JAPANESE TABLE PINE	6.00	50.00
SWISS STONE PINE	6.00	50.00
WEeping WHITE PINE	6.00	50.00
KOSTER BLUE SPRUCE	12.50	100.00
WEeping HEMLOCK	6.00	50.00
ARBORVITAE ROSENTHALI	5.00	40.00

Cash with order. Prices are F.O.B. Pompton Plains I, N. J. No packing charges. All above material for spring delivery is listed subject to prior sale or crop conditions. Descriptive price list on request.

RUMMEL NURSERIES

POMPTON PLAINS I, N. J.

PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$3.75 per 100; \$35.00 per 1000; \$32.50 per 1000 for 5000 or more in one shipment. Available for prompt shipment—late March through November. Shipments anywhere, including Canada.

PEEKSKILL NURSERY Phone: Lakeland 8-5595 SHRUB OAK, N. Y.

COLE'S SURPLUS LIST

All stock in storage with exception of starred (*) items. Graded to A. A. N. standards or better.
Wire, write or phone collect for low quantity prices.

SHRUBS			SHRUBS—Cont.			TREES		
	Each	Each 30		Each	Each 30		Each 10	Each 30
	10 to 29 and up			10 to 29 and up			and up	and up
ARONIA BRILLIANTISSIMA			PHILADELPHUS CORONARIUS			MAPLE, PYRAMIDAL SILVER		
175 12 to 18 ins.	\$.35	\$.30	292 1½ to 2 ft.	\$.35	\$.30	* 30 8 to 10 ft.	\$ 3.00	\$ 2.75
ARONIA PRUNIFOLIA			477 2 to 3 ft.	.50	.40	*100 1½ to 1½-in. cal.	4.40	4.00
85 12 to 18 ins.	.35	.30	141 3 to 4 ft.	.65	.55	* 50 1½ to 1½-in. cal.	6.00	5.50
77 1½ to 2 ft.	.35	.30	PHILADELPHUS AVALANCHE			MAPLE, SUGAR		
BUDDLEIA BURGUNDY			30 1½ to 2 ft.	.50	.40	*200 8 to 10 ft.	4.40	4.00
150 2-yr.	.35	.30	130 2 to 3 ft.	.65	.55	AILANTHUS		
BUDDLEIA DUBONNET			95 3 to 4 ft.	.80	.70	*100 8 to 10 ft.	3.85	3.50
500 2-yr.	.35	.30	PHILADELPHUS VIRGINALIS			*275 1½ to 2-in. cal.	5.00	4.50
BUDDLEIA SNOWBANK			107 12 to 18 ins.	.32	.28	*200 2 to 2½-in. cal.	6.60	6.00
460 2-yr.	.35	.30	700 1½ to 2 ft.	.45	.35	BIRCH, CUTLEAF WEEPING		
CARYOPTERIS BLUE MIST			800 2 to 3 ft.	.60	.50	* 50 1½ to 1½-in. cal.		
105 12 to 18 ins.	.35	.30	SALIX INCANCA			specimen	9.00	8.20
189 15 to 18 ins.	.45	.35	220 1½ to 2 ft.	.35	.30	DOGWOOD, WHITE		
303 18 to 24 ins.	.50	.40	310 2 to 3 ft.	.50	.40	*100 4 to 5 ft. B&B.	4.75	4.30
CHIONANTHUS VIRGINICUS			40 3 to 4 ft.	.60	.50	*200 5 to 6 ft. B&B.	6.00	5.50
* 50 1½ to 2 ft.	.85	.75	SPIRAEA VANHOUTTEI			HAWTHORN—NITIDA, OXYACANTHA,		
*150 2 to 3 ft.	1.30	1.15	342 1½ to 2 ft.	.30	.25	PUNCTATA, TOMENTOSA		
*160 3 to 4 ft.	1.75	1.60	SYMPHORICARPOS (SNOWBERRY)			* 60 3 to 4 ft. B&B.	4.40	4.00
CLETHRA ALNIFOLIA			1045 1½ to 2 ft.	.27	.22	*170 4 to 5 ft. B&B.	5.50	5.00
245 12 to 18 ins.	.45	.35	1610 2 to 3 ft.	.33	.28	*150 5 to 6 ft. B&B.	8.25	7.50
220 1½ to 2 ft.	.55	.45	SYMPHORICARPOS CHENAULTI			* 70 6 to 7 ft. B&B.	11.00	10.00
CORNUS ALBA ELEGANTISSIMA			482 1½ to 2 ft.	.30	.25	HAWTHORN, WASHINGTON		
113 12 to 18 ins.	.55	.45	759 2 to 3 ft.	.35	.30	* 29 10 to 14 ft. specimen, B&B		
CORNUS ALBA SIBIRICA			SYMPHORICARPOS VULGARIS			HONEYLOCUST, THORNLESS		
307 1½ to 2 ft.	.35	.30	1380 2 to 3 ft.	.33	.28	150 1½ to 1½-in. cal.	8.25	7.50
500 2 to 3 ft.	.50	.40	VIBURNUM BURKWOODI			50 1½ to 2 -in. cal.	9.90	9.00
220 3 to 4 ft.	.65	.55	*150 2 to 2½ ft.	2.00	1.75	* 70 2 to 2½-in. cal.	13.25	12.00
CORNUS BAILEYI			*150 2½ to 3 ft.	2.60	2.25	TULIP TREE		
46 1½ to 2 ft.	.35	.30	VIBURNUM CASSINOIDES			* 60 1½ to 1½-in. cal.	5.50	5.00
177 2 to 3 ft.	.50	.40	53 12 to 18 ins.	.50	.40	* 70 1½ to 1½-in. cal.	6.60	6.00
CORNUS PANICULATA			90 1½ to 2 ft.	.60	.50	* 40 1½ to 2 -in. cal.	8.25	7.50
393 18 to 24 ins., 2 canes	.30	.25	212 8 to 9 ft.	.75	.65	MAGNOLIA NIGRA		
1170 18 to 24 ins., 3 canes	.35	.30	VIBURNUM TOMENTOSUM			*145 2 to 2½ ft. heavy,	2.75	2.50
1078 2 to 3 ft.	.50	.40	300 4 to 5 ft.	1.35	1.20	*155 2½ to 2 ft. heavy,		
79 3 to 4 ft.	.65	.55	200 5 to 6 ft.	1.70	1.50	R&B	3.30	3.00
CYTISUS PRAECOX			WEIGELA ROSEA			*120 3 to 4 ft. heavy,	4.10	3.70
*200 9 to 12 ins.	.75	.65	85 18 to 24 ins.	.45	.35	R&B	5.50	5.00
*200 12 to 15 ins.	.95	.85	216 2 to 3 ft.	.55	.45	* 30 4 to 5 ft. heavy,		
DEUTZIA LEMOINEI			WEIGELA VANICERI			R&B	5.50	5.00
120 15 to 18 ins.	.45	.35	130 1½ to 2 ft.	.55	.45	CRAB APPLE, BACCATA COLUMNARIS		
200 1½ to 2 ft.	.55	.45	510 3 to 4 ft.	.95	.85	88 3 to 4 ft.	1.00	.90
EUONYMUS EUROPAEUS			VINES			62 4 to 5 ft.	1.40	1.25
128 2 to 3 ft.	.55	.45	CELASTRUS ORBICULATUS			37 5 to 6 ft.	2.00	1.75
EUONYMUS YEDOENSIS			745 2-yr., No. 1.	.35	.30	CRAB APPLE, HOPA		
*150 1½ to 2 ft.	.45	.35	CELASTRUS SCANDENS			160 5 to 6 ft.	1.40	1.25
*600 2 to 3 ft.	.55	.45	425 2-yr., No. 1.	.35	.30	CRAB APPLE, BECHTEL		
*600 3 to 4 ft.	.70	.60	LONICERA HALLIANA			30 1½ to 2 ft.	.85	.75
FORSYTHIA INTERMEDIA			14,000 2-yr., No. 1.	.27	.22	117 2 to 3 ft.	1.00	.90
100 1½ to 2 ft.	.45	.35	(\$200.00 per 1000)			CRAB APPLE, KLEHM'S BECHTEL		
400 2 to 3 ft.	.55	.45	9000 2-yr., medium.	.20	.15	74 2 to 3 ft.	.90	.80
250 3 to 4 ft.	.70	.60	(\$135.00 per 1000)			90 3 to 4 ft.	1.25	1.10
FORSYTHIA SPECTABILIS			PERENNIALS			50 4 to 5 ft.	1.70	1.50
607 1½ to 2 ft.	.45	.35				CRAB APPLE, ELEV		
450 2 to 3 ft.	.50	.40				124 3 to 4 ft.	.90	.80
242 3 to 4 ft.	.65	.55				150 4 to 5 ft.	1.00	.90
HYDRANGEA A. G.						80 5 to 6 ft.	1.40	1.25
500 1½ to 2 ft.	.40	.35				POPLAR, LOMBARDY		
HYDRANGEA F. G.						75 5 to 6 ft.	.50	.40
127 12 to 18 ins.	.30	.25				320 6 to 8 ft.	.80	.65
282 1½ to 2 ft.	.35	.30				320 8 to 10 ft.	.90	.75
350 2 to 3 ft.	.55	.45				120 1½ to 1½-in. cal.	1.25	1.00
HYDRANGEA NIKKO BLUE						200 1½ to 2 -in. cal.	1.75	1.50
600 2-yr., medium	.60	.50				*100 2 to 2½-in. cal.	3.30	3.00
450 2-yr., No. 1.	.85	.75				LINING-OUT STOCK		
308 3-yr., heavy	1.15	1.00				CORNUS FLORIDA		
HYPERICUM KALMIANUM						(seed from red trees)	Each 50	Each 200
600 15 to 18 ins.	.35	.30				1400 6 to 10 ins. S.	\$ 0.10	\$ 0.08
1154 18 to 24 ins.	.50	.40				PHLODENDRON AMURENSE		
ILEX VERTICILLATA						1000 12 to 24 ins.	.15	.12
116 12 to 18 ins.	.50	.40				POPLAR, LOMBARDY		
156 1½ to 2 ft.	.65	.55				380 2 ft. up, H.W.C.	.10	.08
KOLKWTZIA AMABILIS						QUERCUS BOREALIS (RUBRA)		
104 12 to 18 ins.	.35	.30				3-yr., S., root-pruned at		
325 18 to 24 ins.	.55	.45				2 years old.		
224 2 to 3 ft.	.65	.55				595 12 to 18 ins.	.12	.10
LINDERA BENZOIN						570 1½ to 2 ft.	.17	.14
*300 3 to 4 ft.	.75	.65				880 2 to 3 ft.	.22	.18
*250 4 to 5 ft.	.90	.80				475 3 to 4 ft. br.	.40	.35
*100 6 to 6 ft.	1.15	1.00				178 4 to 4 ft. br.	.55	.50
LONICERA AMOENA ARNOLDIANA						QUERCUS PALUSTRIS		
(New)						10,000 8 to 12 ins. S.	.08	.06
90 2 to 3 ft.	.60	.50				ARONIA ARBUTHOLIA		
100 3 to 4 ft.	.75	.65				1500 6 to 12 ins. S.	.08	.06
28 4 to 5 ft.	1.00	.90				AZALEA MOLLIS		
LONICERA FRAGRANTISSIMA						500 8 to 12 ins.		
360 1½ to 2 ft.	.45	.35				branched, 2-yr., TT	.28	.25
LONICERA MORROWI						BERBERIS KOREANA		
350 3 to 4 ft.	.70	.60				1200 6 to 12 ins. S.	.09	.07
LONICERA TATARICA ALBA						CORNUS RACEMOSA (PANICULATA)		
400 1½ to 2 ft.	.35	.30				5000 9 to 15 ins. S.	.07	.05
580 2 to 3 ft.	.50	.40				ROSA RUGOSA		
LONICERA TATARICA, PINK						5000 8 to 15 ins. S.	.08	.06
338 1½ to 2 ft.	.35	.30				VIBURNUM DENTATUM		
321 2 to 3 ft.	.50	.40				2300 8 to 12 ins. 2-yr., S.	.10	.08
132 3 to 4 ft.	.70	.60				VIBURNUM LENTAGO		
LONICERA ZABELI						1400 8 to 15 ins. 2-yr., S.	.10	.08
145 18 to 24 ins.	.45	.35				JUNIPER, SILVER-BLUE Pfitzer		
300 2 to 3 ft.	.55	.45				1000 2-yr., TT	.38	.35
200 3 to 4 ft.	.70	.60				ILEX CONVEXA		
300 4 to 5 ft.	.95	.85				1500 2-yr., TT	.38	.35

Nurserymen since 1881

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PAINESVILLE, OHIO

SPRING SPECIALS

Euonymus radicans vegetus , bare root, extra heavy	Each
12 to 15 ins.	\$ 1.75
15 to 18 ins.	2.00
18 to 24 ins.	2.50
2 to 2½ ft.	3.00
Berberis atropurpurea , heavy	Per 1000
2-yr., S., liners, 6 ins. and up	\$ 50.00
2-yr., S., 6 to 9 ins.	75.00
2-yr., S., 9 to 12 ins.	100.00
Transplanted Raspberries	
Indian Summer, 2-yr., T., ¼-in. cal.	85.00
Indian Summer, 2-yr., T., ⅝-in. cal.	75.00
Marcy, 2-yr., T., ¼-in. cal.	75.00
Marcy, 2-yr., T., ⅝-in. cal.	65.00
Milton, 2-yr., T., ¼-in. cal.	75.00
Milton, 2-yr., T., ⅝-in. cal.	65.00
Taylor, 2-yr., T., ¼-in. cal.	75.00
Taylor, 2-yr., T., ⅝-in. cal.	65.00
Hybrid Lilacs —12 to 18 ins., up to 3 to 4 ft.	
Roses —Hybrid Teas and Climbers	
Shrubs , heavy 2-yr. and 3-yr. in good assortment	
Willow, Dwarf Blue-leaved Arctic	
Evergreens	
Ornamental Trees	
5-N-1 Apple	
Peach , 11/16-in. cal.	

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BROWN BROTHERS CO.
EAST ROCHESTER, N. Y.

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	Per 100	Per 1000
Cotoneaster Dielsiana, 1-yr., S., 8 to 15 ins.	\$10.00	\$ 90.00
Cotoneaster Praecox, 1-yr., S., 4 to 8 ins., br.	25.00	225.00

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Newport, R. I.

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300 acres of choice Evergreens
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Leading varieties. All sizes, 3 to 8 ft.
4000, all transplanted.

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Assortment of Large-size Plants
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4000 Ilex Crenata Rotundifolia, 4 to 8 ins., rooted in summer of 1953, some with small side branches, 7c each. No shipping. Terms: Cash.

Also, other rooted cuttings. Attractive for someone who can use them all.

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THUJA OCCIDENTALIS COMPACTA ERECTA (NEW)

We offer this new variety in
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lished stock from 2¼-in. pots.

Write for descriptive folder in
color.

THE WESTMINSTER NURSERIES
WESTMINSTER, MD.



Louis B. Lagomarsino

Louis B. Lagomarsino, 55, widely known seedsman and the president of Louis B. Lagomarsino & Sons Wholesale Field Seed Co., Sacramento, Calif., died February 2.

He was born in 1899 on the home ranch, the site of a nursery established by his father in 1879 and later conducted by the five Lagomarsino brothers, who before World War II had a sizable export trade with England, Holland, Denmark and France. After the war, the firm continued the export trade with England and South America.

Mr. Lagomarsino was a past president of the California Association of Nurserymen, the Northern California Nurserymen's Association and the Pacific States Seedsmen's Association.

His survivors are his widow; four sons, Philip F., George A., James E. and William J.; four daughters, Claire Marie, Margaret Ann, Sarah Louise and Marie, and four brothers.

Bertram R. Sturm

Bertram R. Sturm, 67, owner and operator for the past 20 years of the Washington Nurseries, Inc., Toppenish, Wash., died February 12.

Mr. Sturm came to Toppenish from Pendleton, Ore., in 1907 to work for the Washington Nursery Co. He acquired the assets of the company in 1933, and operated it under the title of Washington Nurseries, Inc., until his death.

He was an active member and a former vice-president of the Washington State Nurserymen's Association and also a member of the American Association of Nurserymen.

His survivors include his widow; two sons, Norman D., Sacramento, Calif., and Bertram H., Portland, Ore., and six grandchildren.

Wolbrand van der Vis

Wolbrand van der Vis, 60, head of the van der Vis & Co. nursery, Boskoop, Holland, died February 21, after a long illness, in a nursing home at Utrecht, Holland.

Mr. van der Vis is survived by his widow, a daughter and three sons. Dick van der Vis and Theodore van der Vis will carry on his nurseries and export business.

PONTIAC NURSERY CO.

Phone: Plateau 2-3541 (Romeo)

ROMEO, MICH.

Phone: Woodward 3-9113 (Detroit)

LINING-OUT STOCK

All the following material is graded in storage and ready for immediate shipment, except those items marked (B). This material is in beds and can be shipped as soon as it is possible to dig in later March or early April.

SHRUBS		Per 100	Per 1000
350	<i>Acanthopanax sieboldianus</i> , 6 to 12 ins., SWCX.....	\$ 9.00	\$ 85.00
2500	<i>Berberis thunbergii</i> , 4 to 6 ins., 1-yr., S.....	3.50	25.00
(B) 1200	6 to 9 ins., 1-yr., S.....	4.50	35.00
(B) 2000	9 to 12 ins., 1-yr., S.....	5.50	45.00
(B) 140	6 to 9 ins., 2-yr., S.....	5.00	40.00
(B) 280	9 to 12 ins., 2-yr., S.....	6.00	50.00
(B) 1680	12 to 15 ins., 2-yr., S.....	7.00	60.00
(B) 420	15 to 18 ins., 2-yr., S.....	8.50	75.00
1500	<i>Chaenomeles lagenaria</i> , upright, 3 to 6 ins., 1-yr., S.....	4.50	40.00
2200	6 to 12 ins., 1-yr., S.....	7.00	65.00
900	12 to 15 ins., 1-yr., S.....	8.50	80.00
2900	<i>Chaenomeles japonica</i> , spreading, 3 to 6 ins., 1-yr., S.....	4.50	40.00
3300	6 to 12 ins., 1-yr., S.....	7.00	65.00
1100	12 to 15 ins., 1-yr., S.....	8.50	80.00
(B) 570	3 to 6 ins., 1-yr., S.....	4.50	40.00
(B) 780	6 to 12 ins., 1-yr., S.....	7.00	65.00
(B) 350	12 to 15 ins., 1-yr., S.....	8.50	80.00
50	<i>Cornus alba sibirica</i> , 3 to 6 ins., 1-yr., S.....	3.50	30.00
95	<i>Cornus alba sibirica</i> , 6 to 12 ins., HWC.....	4.50	40.00
200	<i>Cornus alternifolia</i> , 3 to 6 ins., 1-yr., S.....	3.50	30.00
365	6 to 12 ins., 1-yr., S.....	5.00	45.00
50	12 to 18 ins., 1-yr., S.....	6.50	60.00
750	<i>Cornus amomum</i> , 3 to 6 ins., 1-yr., S.....	3.00	25.00
850	6 to 12 ins., 1-yr., S.....	4.00	35.00
925	12 to 18 ins., 1-yr., S.....	5.50	60.00
150	<i>Cornus paniculata</i> , 6 to 12 ins., 1-yr., S.....	4.00	35.00
90	<i>Cornus paniculata</i> , 12 to 18 ins., 1-yr., S.....	5.50	60.00
1150	<i>Cotoneaster foveolata</i> , 3 to 6 ins., 1-yr., S.....	3.50	30.00
1200	6 to 12 ins., 1-yr., S.....	5.00	45.00
580	12 to 18 ins., 1-yr., S.....	6.50	60.00
(B) 640	<i>Deutzia gracilis</i> , 3 to 6 ins., SWCX.....	5.00	45.00
(B) 600	<i>Deutzia gracilis</i> , 6 to 9 ins., SWCX.....	6.50	60.00
200	<i>Deutzia lemoinei</i> , 6 to 12 ins., SWCX.....	10.00	100.00
1100	<i>Deutzia Pride of Rochester</i> , 6 to 12 ins., HWC.....	5.00	45.00
1000	<i>Elaeagnus angustifolia</i> , 12 to 18 ins., S.....	3.00	25.00
(B) 40	<i>Euonymus europaeus</i> , 6 to 9 ins., 1-yr., S.....	3.50	30.00
(B) 100	9 to 12 ins., 1-yr., S.....	5.00	45.00
(B) 40	12 to 15 ins., 1-yr., S.....	6.50	60.00
(B) 160	15 to 18 ins., 1-yr., S.....	7.50	70.00
(B) 160	18 to 24 ins., 1-yr., S.....	9.00	85.00
1550	<i>Euonymus yedoensis</i> , 3 to 6 ins., 1-yr., S.....	3.00	25.00
200	<i>Euonymus yedoensis</i> , 6 to 12 ins., 1-yr., S.....	6.50	60.00
275	<i>Forsythia intermedia</i> , 6 to 12 ins., HWC.....	5.00	45.00
2400	<i>Forsythia intermedia spectabilis</i> , 12 to 18 ins., HWC.....	7.00	65.00
1615	<i>Hydrangea A. G.</i> , 9 to 12 ins., HWC.....	7.00	65.00
60	<i>Hydrangea F. G.</i> , 6 to 12 ins., SWCX.....	10.00	100.00
150	<i>Ilex verticillata</i> , 2-in. bands, 3-yr., S.....	10.00	100.00
96	<i>Kolkwitzia amabilis</i> , 2-in. bands, 3-yr., S.....	12.00	120.00
1000	<i>Kolkwitzia amabilis</i> , 6 to 12 ins., HWC.....	12.00	100.00
300	<i>Ligustrum amurense</i> , 6 to 12 ins., T.....	3.00	25.00
650	6 to 12 ins., HWC.....	3.00	25.00
575	12 to 18 ins., HWC.....	3.50	30.00
550	18 to 24 ins., HWC.....	3.50	30.00
3775	<i>Ligustrum ibolium</i> , 6 to 12 ins., HWC.....	3.00	25.00
200	<i>Ligustrum ibola</i> , 9 to 12 ins., HWC.....	4.00	40.00
470	<i>Ligustrum obtusifolium regelianum</i> , 6 to 12 ins., SWCX.....	8.00	75.00
700	<i>Ligustrum ovalifolium</i> , 6 to 12 ins., HWC.....	3.00	25.00
600	<i>Ligustrum vulgare</i> , 6 to 12 ins., HWC.....	5.00	45.00
60	<i>Ligustrum vulgare xanthocarpum</i> , 2-in. bands.....	8.00	80.00
325	<i>Lonicera fragrantissima</i> , 6 to 12 ins., HWC.....	7.00	65.00
25	<i>Lonicera fragrantissima</i> , 2-in. bands.....	8.00	80.00
120	<i>Lonicera Rubra Wheeling</i> , 6 to 12 ins., HWC.....	5.00	45.00
690	<i>Philadelphus coronarius</i> , 6 to 12 ins., HWC.....	4.50	40.00
80	<i>Philadelphus glaucus</i> , 2-in. bands.....	8.00	80.00
225	<i>Philadelphus nivalis</i> , 6 to 12 ins., HWC.....	4.50	40.00
530	<i>Philadelphus virginialis</i> , Virginia, 6 to 12 ins., HWC.....	7.50	70.00
1600	<i>Philadelphus virginialis</i> , Virginia, 9 to 12 ins., HWC.....	9.00	85.00
230	<i>Prunus besseyi</i> , 3 to 6 ins., 1-yr., S.....	3.00	25.00
650	6 to 12 ins., 1-yr., S.....	4.00	35.00
1000	12 to 18 ins., 1-yr., S.....	5.50	50.00
150	<i>Prunus glandulosa Double White</i> , 2-in. bands.....	8.00	80.00
60	<i>Prunus maritima</i> , 3 to 6 ins., 1-yr., S.....	3.00	25.00
100	<i>Prunus tomentosum</i> , 3 to 6 ins., 1-yr., S.....	4.00	40.00
(B) 660	<i>Rhamnus cathartica</i> , 6 to 12 ins., 1-yr., S.....	4.00	35.00
(B) 330	12 to 15 ins., 1-yr., S.....	5.00	45.00
(B) 160	12 to 15 ins., 1-yr., S.....	5.50	50.00
373	<i>Rhodotypos kerrioides</i> , 3 to 6 ins., 1-yr., S.....	5.00	45.00
(B) 615	6 to 9 ins., 1-yr., S.....	6.50	60.00
(B) 360	9 to 12 ins., 1-yr., S.....	7.50	70.00
(B) 120	12 to 15 ins., 1-yr., S.....	8.50	80.00

Prices F.O.B. Romeo, Michigan. Packing and boxing at cost. Usual terms to those with established credit; otherwise cash with order. C.O.D. orders must be accompanied by 25 percent cash.

LINING-OUT STOCK cont.

	Per 100	Per 1000
250	<i>Rhus cotinus</i> , 3 to 6 ins., 1-yr., S.....	\$ 7.50 \$ 70.00
150	6 to 12 ins., 1-yr., S.....	9.00 85.00
150	12 to 18 ins., 1-yr., S.....	11.00 100.00
165	<i>Rosa carolina</i> , 3 to 6 ins., 1-yr., S.....	3.00 25.00
275	6 to 12 ins., 1-yr., S.....	4.00 35.00
50	12 to 18 ins., 1-yr., S.....	5.50 50.00
500	<i>Rosa rubiginosa</i> , 3 to 6 ins., 1-yr., S.....	3.00 25.00
975	6 to 12 ins., 1-yr., S.....	4.00 35.00
1100	12 to 18 ins., 1-yr., S.....	5.50 50.00
2350	<i>Rosa rubrifolia</i> , 3 to 6 ins., 1-yr., S.....	3.00 25.00
2300	6 to 12 ins., 1-yr., S.....	4.00 35.00
850	12 to 18 ins., 1-yr., S.....	5.50 50.00
200	<i>Rosa rugosa</i> , 3 to 6 ins., 1-yr., S.....	3.00 25.00
500	6 to 12 ins., 1-yr., S.....	4.00 35.00
140	12 to 18 ins., 1-yr., S.....	5.50 50.00
1050	<i>Rosa setigera</i> , 3 to 6 ins., 1-yr., S.....	3.00 25.00
1225	6 to 12 ins., 1-yr., S.....	4.00 35.00
375	12 to 18 ins., 1-yr., S.....	5.50 50.00
75	<i>Saxifraga purpurea</i> , 6 to 12 ins., HWC.....	3.00 25.00
500	<i>Spiraea froebeli</i> , 6 to 12 ins., HWC.....	5.00 40.00
300	<i>Spiraea Vanhouttei</i> , 12 to 18 ins., HWC.....	4.00 35.00
300	<i>Symphoricarpos chenaultii</i> , 12 to 18 ins., R.C.....	5.00 40.00
300	<i>Symphoricarpos chenaultii</i> , 6 to 12 ins., HWC.....	4.00 35.00
200	<i>Symphoricarpos racemosus</i> , 12 to 18 ins., R.C.....	5.00 40.00
115	<i>Symphoricarpos vulgaris</i> , 6 to 12 ins., HWC.....	4.00 35.00
420	<i>Syringa persica</i> , 2-in. bands.....	9.00 85.00
325	<i>Syringa vulgaris</i> , 12 to 18 ins., 2-yr., S.....	9.00 75.00
1310	<i>Tamarix africana</i> , 12 to 18 ins., HWC.....	5.00 45.00
525	<i>Viburnum lantana</i> , 6 to 12 ins., 2-yr., S.....	8.00 75.00
75	12 to 18 ins., 2-yr., S.....	8.50 80.00
160	18 to 24 ins., 2-yr., S.....	10.00 95.00
350	<i>Viburnum lentago</i> , 3 to 6 ins., 1-yr., S.....	5.00 45.00
410	<i>Viburnum lentago</i> , 12 to 18 ins., 1-yr., S.....	8.50 80.00
(B) 140	<i>Viburnum opulus</i> , 3 to 6 ins., 1-yr., S.....	4.50 40.00
(B) 120	6 to 9 ins., 1-yr., S.....	7.00 65.00
(B) 300	9 to 12 ins., 1-yr., S.....	8.50 80.00
(B) 440	12 to 15 ins., 1-yr., S.....	10.00 95.00
70	<i>Viburnum opulus rostrum</i> , 6 to 12 ins., T.....	9.00 85.00
175	<i>Viburnum sieboldii</i> , 2-in. bands.....	9.00 85.00
55	<i>Weigela florida</i> , 6 to 12 ins., SWCX.....	5.00 45.00
150	12 to 18 ins., SWCX.....	6.50 60.00
180	18 to 24 ins., SWCX.....	7.00 65.00
1760	6 to 9 ins., HWC.....	7.00 65.00
1530	9 to 15 ins., HWC.....	7.50 70.00
25	<i>Weigela variegata</i> , 3 to 6 ins., SWCX.....	4.00 35.00
25	6 to 12 ins., SWCX.....	7.00 65.00
60	12 to 18 ins., SWCX.....	9.00 85.00
100	<i>Acer saccharinum</i> , 3 to 6 ins., 2-yr., S.....	3.00 25.00
350	6 to 12 ins., 2-yr., S.....	4.00 35.00
575	12 to 24 ins., 2-yr., S.....	5.50 50.00
(B) 500	<i>Crataegus phaeopyrum</i> , 9 to 12 ins., 2-yr., T.....	15.00 135.00
1000	<i>Gleditsia triacanthos intermis</i> , 2 to 3 ft., S.....	7.00 65.00
1060	<i>Populus nigra italica</i> , 6 to 12 ins., HWC.....	3.00 25.00
1075	<i>Populus nigra italica</i> , 12 to 24 ins., HWC.....	4.00 35.00
2000	<i>Ulmus parvifolia</i> , 4 to 5 ft., S.....	6.50 60.00

FINISHED MATERIAL

All the following material is graded in storage and ready for immediate shipment, except those items marked (F). This material is in field and can be shipped as soon as it is possible to dig in later March or early April.

	Per 10	Per 100
(F) 300	<i>Fraxinus americana</i> , 4 to 5 ft., br.....	\$ 5.00 \$ 35.00
(F) 300	<i>Fraxinus pennsylvanica lanceolata</i> , 4 to 5 ft., br.....	5.00 35.00
(F) 400	<i>Fraxinus pennsylvanica lanceolata</i> , 5 to 6 ft., br.....	7.50 60.00
(F) 100	<i>Quercus palustris</i> , 6 to 8 ft., br.....	32.50 300.00
(F) 50	<i>Quercus palustris</i> , 8 to 10 ft., br.....	42.50 375.00
(F) 1000	<i>Ulmus americana</i> , 6 to 8 ft., br.....	10.00 80.00
(F) 500	8 to 10 ft., br.....	15.00 125.00
(F) 200	10 to 12 ft., br.....	17.50 150.00
(F) 200	<i>Ulmus americana molini</i> , 6 to 8 ft., br.....	20.00 150.00
(F) 150	<i>Ulmus americana molini</i> , 8 to 10 ft., br.....	30.00 250.00
(F) 50	<i>Ulmus glabra</i> , 6 to 8 ft., br.....	10.00 80.00
(F) 100	<i>Ulmus glabra</i> , 8 to 10 ft., br.....	15.00 125.00
500	<i>SHRUBS</i>	
100	<i>Berberis thunbergii</i> , 18 to 24 ins.....	3.50 30.00
100	<i>Cornus alba sibirica</i> , 18 to 24 ins.....	2.75 25.00
100	2 to 3 ft., S.....	4.00 35.00
100	3 to 4 ft., S.....	4.50 40.00
100	<i>Cornus stolonifera flaviramea</i> , 3 to 4 ft.....	6.50 60.00
100	<i>Cotoneaster foveolata</i> , 2 to 3 ft.....	4.00 35.00
100	<i>Cotoneaster foveolata</i> , 3 to 4 ft.....	5.50 50.00
150	<i>Deutzia Pride of Rochester</i> , 2 to 3 ft.....	4.00 35.00
150	<i>Deutzia Pride of Rochester</i> , 3 to 4 ft.....	4.50 40.00
50	<i>Ligustrum vulgare</i> , 2 to 3 ft.....	4.00 35.00
50	<i>Ligustrum vulgare</i> , 3 to 4 ft.....	4.50 40.00
100	<i>Prunus tomentosum</i> , 18 to 24 ins.....	4.50 40.00
50	4 to 5 ft.....	8.50 80.00
50	5 to 6 ft.....	11.00 100.00
150	<i>Salix discolor</i> , 6 to 8 ft.....	9.00 80.00
200	<i>Syringa persica</i> , 18 to 24 ins.....	3.00 25.00
100	<i>Syringa persica</i> , 2 to 3 ft.....	4.00 35.00
100	<i>Tamarix hispida</i> , 3 to 4 ft.....	4.50 40.00
50	<i>Tamarix hispida</i> , 4 to 5 ft.....	5.50 50.00

LINING-OUT SPECIALTIES

DRESHER - GROWN

	Per 100
Cornus Florida, 12 to 18 ins.....	\$ 10.00
Hydrangea P.G., 1-yr., layers	8.00
Platanus Orientalis, 2 to 3 ft.....	16.00
1 1/2 to 2 ft.....	12.50
6 to 12 ins.....	8.50
Quercus Coccinea, 1-yr..	13.50
Quercus Palustris, 1-yr...	12.50
Quercus Rubra, 1-yr.....	8.50
2-yr.....	12.50
Salix Babylonica, 4 to 5 ft.....	17.50
5 to 6 ft.....	22.50
6 to 8 ft., T.....	175.00

COLLECTED EVERGREEN SHRUBS

Kalmia Latifolia, 6 to 10 ins.....	9.50
Leucothoe Catesbaei, 6 to 12 ins.....	12.50
Rhododendron Carolinianum, 6 to 10 ins.....	11.50
Rhododendron Catawbiense, 6 to 10 ins.....	11.50
Rhododendron Maximum, 6 to 10 ins.....	10.00
Tsuga Canadensis, 8 to 12 ins.....	11.50
Tsuga Carolinianum, 8 to 12 ins.....	11.50
Magnolia Soulangeana, 2 to 3 ft., B&B, \$3.00 each in 10 lots.	

Packing charges additional.

Many other good varieties.

Write for List

Goodrich Budding Strips Raffia

THOMAS B. MEEHAN CO., INC.
DRESHER, PA.

DR. AVERY SPEAKS AT WILLIAMSBURG

Dr. George S. Avery, Jr., director of the Brooklyn Botanic Garden, speaking before garden enthusiasts from 22 states attending the Williamsburg spring garden symposium held February 26, at Williamsburg, Va., called for new education courses to teach Americans about the plants growing around them. Dr. Avery stated that the average American adult does not know the commonest of plants.

"We have learned from experience at the botanic garden that the average American calls any shrub 'a bush,'" Dr. Avery told his audience. "Any tree is just 'a tree,' and garden annuals and perennials are 'flowers.'"

"In short, the average person thinks there are three kinds of plants. Some add a fourth classification, 'Christmas tree.' Once the standard of a nation was judged on the percentage of its people who could read and write. Isn't it time we raised the level of expectation?"

Dr. Avery, a former professor at Duke University and Connecticut College, suggested a new college course to take the place of beginning biology to teach students the names of plants and how to grow them. He called for the help of garden clubs to encourage such a course.

"Most students don't want predigested scientific pills or bird's-eye view summaries," Dr. Avery said. "They want their feet on the ground, but frequently the academic setup is such that they never get a chance to do it. Isn't science with a vocational slant a part of the culture so-called higher education is supposed to lead to?"

He advised his listeners that no matter how national or international a movement may be, they should never lose track of the community in which they live—its beauty, the well-being of its people and its future.

For America to know more of its plant life, it needs more garden clubs, which Dr. Avery described as the greatest volunteer organizations in America for beautification, and more botanic gardens.

He recommended a promotion program by garden clubs to acquaint more persons with garden club activities through free flower shows and garden centers. Garden clubs, he believes, should take the first step in teaching Americans about their plants.

He spoke at a special garden club luncheon held in connection with the garden symposium.

CHOICE NURSERY STOCK

	Per 100	Per 1000
SCOTCH PINE (Special strain)		
2-yr., S., (2-0), 5 to 10 ins..	\$ 4.00	\$30.00
AUSTRIAN PINE (Heavy grade)		
2-yr., S., (2-0), 3 to 5 ins..	3.00	20.00
3-yr., S., (3-0), 6 to 12 ins..	5.50	40.00
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2-yr., S., (2-0), 3 to 6 ins..	3.00	20.00
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COLORADO BLUE SPRUCE		
3-yr., S., (3-0), 5 to 8 ins..	7.00	50.00
3-yr., S., (3-0), 6 to 10 ins..	10.00
3-yr., T., (2-1), 3 to 5 ins..	7.50	60.00
WHITE SPRUCE		
2-yr., S., (2-0), 5 to 10 ins..	5.00	35.00
4-yr., T., (3-1), 6 to 12 ins..	6.50	50.00
NORWAY SPRUCE		
3-yr., S., (3-0), 5 to 10 ins..	4.50	30.00
JUNIPERUS SCOPULORUM		
3-yr., S., (3-0), 5 to 10 ins..	6.00	40.00
3-yr., T., (2-1), 4 to 7 ins..	8.00	60.00
JUNIPERUS PLATTE RIVER (Red Cedar)		
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1185 Willow, Thurlow, 5 to 6 ft.	11.00	100.00
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SHRUBS

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340 Berberis Thunbergi, 24 to 30 ins.	4.50	40.00
1140 Berberis Thunbergi Atropurpurea, 9 to 12 ins.	2.50	20.00
420 Berberis Thunbergi Atropurpurea, 12 to 15 ins.	3.50	30.00
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250 Calycanthus, 12 to 18 ins.	4.00	35.00
660 Cornus Alba Sibirica, 12 to 18 ins.	3.50	30.00
1060 18 to 24 ins.	4.00	35.00
230 3 to 4 ft.	5.00	45.00
970 Cornus Lutea, 12 to 18 ins.	3.00	25.00
1740 Cornus Lutea, 18 to 24 ins.	3.50	30.00
180 Cornus Masculia, 3 to 4 ft.	7.50	...
150 Cotoneaster Acutifolia, 12 to 18 ins.	4.50	40.00
170 18 to 24 ins.	5.00	45.00
300 2 to 3 ft.	5.50	50.00
470 3 to 4 ft.	6.50	60.00
190 Cotoneaster Divaricata, 2 to 3 ft.	6.50	60.00
650 Cydonia Japonica, Regular, 12 to 18 ins.	2.50	20.00
340 Cydonia Japonica, Regular, 3 to 4 ft.	4.50	40.00
530 Deutzia Gracilis, 9 to 12 ins.	4.00	35.00
420 12 to 15 ins.	4.50	40.00
120 15 to 18 ins.	5.00	45.00
140 Deutzia Lemoinei, 18 to 24 ins.	4.50	40.00
140 Deutzia Pride of Rochester, 18 to 24 ins.	4.00	35.00
230 Deutzia Pride of Rochester, 4 to 5 ft.	6.00	55.00
100 Euonymus Alatus, 12 to 18 ins.	7.50	...
110 Euonymus Alatus Compactus, 9 to 12 ins.	7.00	...
470 12 to 15 ins.	8.00	...
380 15 to 18 ins.	9.00	...
1140 Euonymus Europaeus, 2 to 3 ft.	4.00	...
8000 Euonymus Europaeus, 3 to 4 ft.	4.50	40.00
550 Forsythia Fortunei, 12 to 18 ins.	3.00	25.00
560 18 to 24 ins.	3.50	30.00
230 2 to 3 ft.	4.50	40.00
1390 Forsythia Intermedia, 12 to 18 ins.	2.50	20.00
1650 18 to 24 ins.	3.00	25.00
620 2 to 3 ft.	4.50	40.00
460 3 to 4 ft.	5.00	45.00
930 Forsythia Primulina, 12 to 18 ins.	2.50	20.00
100 18 to 24 ins.	3.00	25.00
760 3 to 4 ft.	5.00	45.00
910 Forsythia Spectabilis, 12 to 18 ins.	3.00	25.00
140 Forsythia Spectabilis, 18 to 24 ins.	3.50	30.00
325 Forsythia Suspensa, 3 to 4 ft.	5.50	50.00
420 Honeysuckle, Bella Albida, 2 to 3 ft.	4.50	40.00
100 Honeysuckle, Bella Albida, 3 to 4 ft.	5.00	45.00
1140 Honeysuckle, Grandiflora, 2 to 3 ft.	4.50	40.00
140 3 to 4 ft.	5.00	45.00
350 5 to 6 ft.	6.00	55.00
160 Honeysuckle, Morrow Prostrata, 3 to 4 ft.	5.00	45.00
250 Honeysuckle, Tatarian White, 2 to 3 ft.	4.50	40.00
4700 Honeysuckle, Zabel, 12 to 18 ins.	3.50	30.00
2250 18 to 24 ins.	4.00	37.50
1820 2 to 3 ft.	4.50	42.50
3080 Hydrangea P. G., 12 to 18 ins.	2.50	20.00
150 18 to 24 ins.	3.50	...
200 2 to 3 ft.	4.00	...
180 Kolkwitzia Amabilis, 3 to 4 ft.	6.50	...
1470 Lilac, Persian, 12 to 18 ins.	3.50	30.00
1850 Lilac, Persian, 18 to 24 ins.	4.00	35.00
330 Lilac, Vulgaris Alba, 12 to 18 ins.	4.00	...
860 Lilac, Vulgaris, Purple, 12 to 18 ins.	3.00	27.50
880 Lilac, Vulgaris, Purple, 2 to 3 ft.	4.50	42.50
670 Lilac, Villosa, 2 to 3 ft.	4.50	40.00
1480 Lilac, Villosa, 3 to 4 ft.	5.00	45.00

SHRUBS Continued

	Per 10	Per 100
480 Philadelphus Coronarius, 12 to 18 ins.	\$2.50	\$20.00
610 18 to 24 ins.	3.00	25.00
270 2 to 3 ft.	4.50	40.00
180 Philadelphus Grandiflorus, 12 to 18 ins.	2.50	20.00
100 18 to 24 ins.	3.00	27.50
130 2 to 3 ft.	4.50	40.00
140 3 to 4 ft.	5.50	50.00
300 Philadelphus Pyramidalis, 12 to 18 ins.	2.50	...
120 18 to 24 ins.	3.50	...
100 2 to 3 ft.	4.50	...
230 Philadelphus Virginalis, 12 to 18 ins.	3.50	30.00
340 3 to 4 ft.	6.50	60.00
650 4 to 5 ft.	7.00	65.00
7220 Privet, Amur River North, 12 to 18 ins., 3 br.	1.10	9.00
3110 18 to 24 ins., 2 and 3 br.	1.80	12.00
2730 2 to 3 ft., 4 br.	2.50	20.00
1520 3 to 4 ft., 5 br.	3.00	25.00
320 4 to 5 ft.	3.50	30.00
570 Privet, California, 12 to 18 ins., 3 br.	1.00	9.00
180 18 to 24 ins., 3 and 4 br.	1.30	12.00
670 2 to 3 ft.	2.00	15.00
400 Privet, Regel, 12 to 18 ins.	3.00	25.00
190 Rhodotypos Kerrioides, 12 to 18 ins.	3.50	30.00
140 Rhus Cotinus, 12 to 18 ins.	6.50	...
100 Rhus Typhina Laciniata, 2 to 3 ft.	5.50	50.00
500 3 to 4 ft.	6.00	55.00
500 4 to 5 ft.	6.50	60.00
820 Spiraea Anthony Waterer, 12 to 15 ins.	3.50	32.50
510 Spiraea Anthony Waterer, 15 to 18 ins.	4.00	37.50
150 Spiraea Arguta, 3 to 4 ft.	5.50	50.00
350 Spiraea Bethlehemensis, 12 to 18 ins.	2.00	15.00
130 Spiraea Bethlehemensis, 18 to 24 ins.	2.50	20.00
150 Spiraea Douglasi, 12 to 18 ins.	3.00	25.00
720 Spiraea Froebeli, 9 to 12 ins.	3.00	25.00
640 12 to 15 ins.	3.50	30.00
650 15 to 18 ins.	4.00	35.00
230 18 to 24 ins.	4.50	40.00
340 30 to 36 ins.	5.50	50.00
250 Spiraea Opulifolia Aurea, 12 to 18 ins.	3.00	25.00
870 24 to 30 ins.	4.00	35.00
1000 3 to 4 ft.	4.50	40.00
340 Spiraea Opulifolia Nana, 12 to 18 ins.	3.00	27.50
190 18 to 24 ins.	4.00	35.00
180 2 to 3 ft.	5.00	45.00
150 Spiraea Thunbergi, 2 to 3 ft.	5.00	...
530 Spiraea Vanhouttei, 12 to 18 ins.	2.00	15.00
830 Spiraea Vanhouttei, 18 to 24 ins.	3.00	25.00
700 Symphoricarpos Racemosus, 12 to 18 ins.	2.00	15.00
250 Symphoricarpos Racemosus, 18 to 24 ins.	2.50	20.00
710 Symphoricarpos Vulgaris, 12 to 18 ins.	2.00	15.00
820 18 to 24 ins.	2.50	20.00
1270 2 to 3 ft.	3.00	25.00
200 Tamarix Amurensis, 18 to 24 ins.	3.00	...
280 2 to 3 ft.	3.50	...
280 3 to 4 ft.	4.00	...
100 4 to 5 ft.	4.50	...
100 Tamarix Hispidia, 18 to 24 ins.	3.00	...
150 2 to 3 ft.	3.50	...
160 3 to 4 ft.	4.00	...
210 Viburnum Dentatum, 3 to 4 ft.	6.50	60.00
450 Viburnum Lantana, 12 to 18 ins.	4.00	35.00
320 Viburnum Lantana, 18 to 24 ins.	5.00	45.00
160 Viburnum Lentago, 18 to 24 ins.	5.00	45.00
270 Viburnum Molle, 12 to 18 ins.	4.00	35.00
480 18 to 24 ins.	4.50	40.00
670 2 to 3 ft.	5.50	50.00
190 3 to 4 ft.	6.50	60.00
700 4 to 5 ft.	7.00	65.00
100 5 to 6 ft.	7.50	70.00
540 Viburnum Opulus, 12 to 18 ins.	4.00	35.00
450 Viburnum Opulus, 18 to 24 ins.	5.00	45.00
420 Viburnum Opulus Sterile, 12 to 18 ins.	4.50	40.00
530 Weigela Rosea, 12 to 18 ins.	2.50	20.00

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1000 Boston Ivy, 2-yr., I	4.50	40.00
645 Honeysuckle, Hall's Japanese, 2-yr., I	2.50	20.00
200 Honeysuckle, Hall's Japanese, 2-yr., Med.	2.00	15.00
380 Polygonum Auberti, 2-yr., I	4.50	40.00
745 Wistaria Chinensis, 2-yr., I	5.00	45.00
120 2-yr., Med.	4.00	35.00
240 1-yr., I	3.50	30.00



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A. A. N. MEMBERS FAVOR SECURITY EXTENSION

Returns on a referendum on old age and survivors insurance conducted among members of the American Association of Nurserymen have indicated that nurserymen are in favor of extension of OASI (social security) coverage to self-employed farmers, which includes nurserymen.

As of late February, a total of 678 firms had been heard from, 181 incorporated firms, the officers of which are now covered by OASI, and 497 unincorporated firms (partnerships, proprietorships, etc.). The first group voted 146 to 27 in favor of extension of coverage, with eight not voting, and the second group voted 354 to 143 in favor of extension.

Of the same 678 returns, 378 voted to return the rate of the OASI tax to 1½ per cent, as it was previously, while 282 voted to continue the tax at the current rate of 2 per cent on each employer and employee; 18 did not vote on this question.

In reply to another question, 441 voted to continue the tax on the first \$3,600 of earned income, as at present; 130 voted in favor of an increase in the base to \$4,500, and 89 would increase the base to \$5,000. Eighteen did not vote on this question.

SAFARI HIGHLIGHTS TRIP

The shooting of a 200-pound jaguar highlighted the combination hunting and plant exploration trip of Charles B. Staton, Possum Hollow Nurseries, Philadelphia, Pa., to Guatemala recently. Mr. Staton reports that many types of game abound here, including wild boar, deer, wild turkeys and jaguars. In addition, the Guatemalan jungle is

HEAVY, SHEARED WHITE PINE TREES

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Can be shipped any time. Prices are made subject to stock not being sold on receipt of order.

	Each	Per 10	Per 100	Per 1000		Each	Per 10	Per 100	Per 1000
8 <i>Aralia Pentaphylla</i> , 18 to 24 ins.....	\$0.12				149 <i>Poplar, Bolleana</i> , 4 to 5 ft....	\$0.20	\$0.18	\$0.15	
145 <i>Barberry, Green, S.</i> , 2 to 4 ins....	.06	\$0.05	\$0.04		340 <i>Poplar, Lombardy</i> , 4 to 5 ft....	.12	.10	.09	
290 4 to 6 ins.....	.07	.06	.05		360 <i>Poplar, Simon</i> , 4 to 5 ft....	.12	.10	.09	
117 6 to 8 ins.....	.08	.07	.06		81 <i>Privet, Amur River North</i> , 4 to 6 ins.....	.06	.05		
25 8 to 12 ins.....	.09	.07			148 6 to 8 ins.....	.07	.06	.05	
231 <i>Barberry, Red, S.</i> , 2 to 4 ins....	.10	.09	.08		758 8 to 12 ins.....	.09	.08	.07	
360 4 to 6 ins.....	.12	.11	.10		1641 12 to 15 ins.....	.11	.10	.08	\$0.07
148 6 to 8 ins.....	.14	.13	.10		1526 15 to 18 ins.....	.12	.11	.10	.09
19 8 to 12 ins.....	.16	.15			15 <i>Rhodotypos</i> , 4 to 6 ins.....	.10			
16 <i>Cork Bark</i> , 1-yr., field, 4 to 6 ins.....	.20	.18			21 6 to 8 ins.....	.12			
32 8 to 12 ins.....	.22	.20			10 12 to 15 ins.....	.14			
13 12 to 15 ins.....	.24	.22			200 <i>Rhodotypos</i> , 1-yr., field, 2 to 4 ins.....	.12	.11	.10	
10 15 to 18 ins.....	.25	.23			107 4 to 6 ins.....	.13	.12	.11	
6 <i>Cornus Sibirica</i> , 6 to 8 ins.....	.10				177 6 to 8 ins.....	.14	.13	.12	
4 8 to 12 ins.....	.12				70 8 to 12 ins.....	.15	.14	.13	
10 12 to 15 ins.....	.15	.12½			11 12 to 15 ins.....	.16	.15		
12 15 to 18 ins.....	.18	.15			120 <i>Spiraea Anthony Waterer</i> , 4 to 6 ins.....	.12	.10	.10	
30 18 to 24 ins.....	.20				19 <i>Spiraea Anthony Waterer</i> , 8 to 12 ins.....	.15	.12½		
34 2 to 3 ft.....	.22	.18			9 <i>Spiraea Billardi</i> , 4 to 6 ins.....	.05			
4775 <i>Cotoneaster Acutifolia</i> , liners, 2 to 4 ins.....	.08	.07	.06	\$0.05	16 6 to 8 ins.....	.05			
1345 4 to 6 ins.....	.09	.08	.07	.06	40 8 to 12 ins.....	.07	.06		
27 6 to 8 ins.....	.12	.10			36 12 to 15 ins.....	.08	.07		
424 12 to 15 ins.....	.16	.15	.14		46 15 to 18 ins.....	.09	.08		
284 15 to 18 ins.....	.18	.17	.16		60 18 to 24 ins.....	.10	.09		
24 1-yr., field, 6 to 8 ins.....	.22	.20			5 <i>Spiraea Vanhouttei</i> , 4 to 6 ins.....	.05			
90 8 to 12 ins.....	.25	.22			14 6 to 8 ins.....	.06			
119 12 to 15 ins.....	.26	.25	.22		30 8 to 12 ins.....	.08	.07		
32 15 to 18 ins.....	.28	.27			69 12 to 15 ins.....	.09	.08		
245 <i>Currant, Alpine</i> , 2 to 4 ins.....	.11	.10	.09		130 15 to 18 ins.....	.12	.11	.10	
251 4 to 6 ins.....	.12	.11	.10		47 18 to 24 ins.....	.14	.13		
14 12 to 15 ins.....	.15	.14			2 <i>Syringa Gerardii</i> , 4 to 6 ins.....	.08			
32 <i>Currant, Red Lake</i> , 2 to 4 ins....	.07	.06			5 6 to 8 ins.....	.10			
30 4 to 6 ins.....	.08	.07			24 8 to 12 ins.....	.12	.11		
23 6 to 8 ins.....	.09	.08			67 12 to 15 ins.....	.13	.12		
44 8 to 12 ins.....	.12	.10			79 15 to 18 ins.....	.14	.13		
24 12 to 15 ins.....	.14	.12			62 18 to 24 ins.....	.15	.14		
5 15 to 18 ins.....	.16				189 <i>Syringa Villosa</i> , S., 2 to 4 ins....	.06	.05	.04	
25 <i>Deutzia Gracilis</i> , 4 to 6 ins.....	.11	.09			275 4 to 6 ins.....	.07	.06	.05	
165 6 to 8 ins.....	.14	.12½	.11		210 6 to 8 ins.....	.08	.07	.06	
1127 8 to 12 ins.....	.16	.14	.12	.11	440 8 to 12 ins.....	.09	.08	.07	
12 <i>Deutzia Lemoinel</i> , 4 to 6 ins.....	.06	.05			245 12 to 15 ins.....	.10	.09	.08	
18 6 to 8 ins.....	.08	.07			177 15 to 18 ins.....	.11	.10	.09	
150 8 to 12 ins.....	.10	.09	.08		210 18 to 24 ins.....	.12	.11	.10	
210 12 to 15 ins.....	.13	.12	.11		74 2 to 3 ft.....	.13	.12		
229 15 to 18 ins.....	.14	.13	.12		15 <i>Syringa Virginialis</i> , 4 to 6 ins....	.06			
44 18 to 24 ins.....	.15	.14			8 6 to 8 ins.....	.10			
21 <i>Deutzia Magnifica</i> , 15 to 18 ins....	.10	.09			62 8 to 12 ins.....	.11	.10		
15 <i>Deutzia Magnifica</i> , 18 to 24 ins....	.12	.11			93 12 to 15 ins.....	.12	.10		
157 <i>Euonymus Alatus Compactus</i> , 2 to 4 ins.....	.10	.09	.08		100 15 to 18 ins.....	.14	.12		
220 4 to 6 ins.....	.14	.12	.10		121 18 to 24 ins.....	.15	.14		
73 6 to 8 ins.....	.15	.14			9730 <i>Viburnum Dentatum</i> , 2 to 4 ins....	.06	.05	.04	.03½
24 8 to 12 ins.....	.16	.15	.14		3800 4 to 6 ins.....	.07	.06	.05	.04½
24 12 to 15 ins.....	.20	.18			2043 6 to 8 ins.....	.08	.07	.06	.05
11 15 to 18 ins.....	.25	.20			967 8 to 12 ins.....	.09	.08	.07	.06
827 <i>Euonymus Coloratus</i> , 18 to 24 ins.....	.15	.14	.12	.10	14 <i>Viburnum Dentatum</i> , 1-yr., field, 4 to 6 ins.....	.14	.12		
29 <i>Euonymus Patens</i> , 4 to 6 ins.....	.12	.10			17 6 to 8 ins.....	.16	.15		
97 6 to 8 ins.....	.14	.12			84 12 to 15 ins.....	.18	.17		
424 8 to 12 ins.....	.15	.14	.12		70 15 to 18 ins.....	.19	.18		
159 12 to 15 ins.....	.20	.18	.16		56 18 to 24 ins.....	.20	.19		
20 15 to 18 ins.....	.22	.20			100 <i>Viburnum Lantana</i> , 2 to 4 ins....	.07	.06	.05	
94 18 to 24 ins.....	.25	.22			109 4 to 6 ins.....	.08	.07	.06	
91 <i>Euonymus Vegetus</i> , 2 to 4 ins.....	.12	.11			93 6 to 8 ins.....	.11	.10	.09	
136 <i>Euonymus Vegetus</i> , 4 to 6 ins.....	.15	.14			136 8 to 12 ins.....	.12	.11	.10	
10 <i>Honeysuckle, Morrow</i> , 4 to 6 ins....	.11	.10			58 12 to 15 ins.....	.15	.14		
15 6 to 8 ins.....	.12	.11			63 15 to 18 ins.....	.16	.15		
33 8 to 12 ins.....	.13	.12			98 18 to 24 ins.....	.17	.16		
43 12 to 15 ins.....	.14	.13			99 2 to 3 ft.....	.18	.17		
70 15 to 18 ins.....	.15	.14			8 3 to 4 ft.....	.19			
86 18 to 24 ins.....	.16	.15			174 <i>Viburnum Opulus Nanum</i> , 2 to 4 ins.....	.12½	.11	.10	
49 2 to 3 ft.....	.17	.16			465 <i>Vitex Agnus-castus</i> , 2 to 4 ins....	.05	.04	.03	
17 <i>Honeysuckle, Pink</i> , 6 to 8 ins....	.10	.09			400 4 to 6 ins.....	.06	.05	.04	
61 18 to 24 ins.....	.18	.17			510 6 to 8 ins.....	.07	.06	.05	
110 2 to 3 ft.....	.30	.28	.25		675 8 to 12 ins.....	.08	.07	.06	.05
66 <i>Hydrangea P. G.</i> , 1-yr., field, 12 to 15 ins.....	.14	.13			263 12 to 15 ins.....	.09	.08	.07	.06
16 15 to 18 ins.....	.16	.15			238 15 to 18 ins.....	.10	.09	.08	
8 18 to 24 ins.....	.18				83 18 to 24 ins.....	.11	.10	.09	
12 <i>Hypericum</i> , 4 to 6 ins.....	.06	.05			69 <i>Weeping Willow</i> , yellow bark, 4 to 5 ft.....	.15	.12½		
34 6 to 8 ins.....	.08	.07			FINISHED STOCK, 2-yr., in field				
44 8 to 12 ins.....	.09	.08			2500 <i>Chinese Elm</i> , 5 to 6 ft.....	.70	.65	.60	.55
52 12 to 15 ins.....	.10	.09			2500 <i>Chinese Elm</i> , 6 to 8 ft.....	.90	.85	.80	.75
35 15 to 18 ins.....	.12	.10			550 <i>Deutzia Lemoinel</i> , 18 to 24 ins....	.30	.27	.25	
12 18 to 24 ins.....	.15	.12			600 <i>Euonymus Europaeus</i> , 2 to 3 ft....	.30	.27	.25	
1115 <i>Maple, Red, S.</i> , 2 to 4 ins.....	.05	.04	.03	.02½	300 <i>Hydrangea P. G.</i> , 18 to 24 ins....	.30	.27	.25	
1658 4 to 6 ins.....	.06	.05	.04	.03	1700 <i>Lilac, Villosa</i> , 3 to 4 ft.....	.30	.27	.25	.22
2074 6 to 8 ins.....	.07	.06	.05	.04	550 <i>Spiraea Billardi</i> , 2 to 3 ft.....	.25	.22	.20	
681 8 to 12 ins.....	.08	.07	.06	.05	600 <i>Viburnum Americana</i> , 2 to 3 ft....	.30	.27	.25	
276 12 to 15 ins.....	.09	.08	.07	.06	400 <i>Early Richmond Cherry</i> , 11/16-in. cal.....	.70	.65	.60	
52 15 to 18 ins.....	.10	.11							
10 <i>Philadelphus Aureus</i> , 2 to 4 ins....	.11	.10							
47 4 to 6 ins.....	.12	.11							
60 6 to 8 ins.....	.14	.12							
95 8 to 12 ins.....	.20	.18							

Cash with order earns free packing or baling.
Please advise how to ship.

FAIR VIEW NURSERIES, INC.

R. R. 3

FORT WAYNE 8, IND.

Phone: Anthony 6175

LINING-OUT STOCK

	Each per 100	Each per 1000
AZALEA MOLLIS, mixed colors.		
2-yr., X, liners,		
2 to 4 ins.	\$0.16	\$0.14
4 to 6 ins. ....	.20	.18
3-yr., XX, field bed,		
6 to 9 ins. ....	.45	...
9 to 12 ins. ....	.65	...
AZALEA SCHLIPPENBACHI.		
2-yr., X, liners,		
2 to 4 ins. ....	.20	...
3-yr., XX, field bed,		
4 to 6-in. spread. .	.60	...
6 to 8-in. spread. .	.75	...
4-yr., XX, field bed,		
8 to 10-in. spread. .	1.00	...
CASTANEA MOLLISSIMA (Chinese Chestnut).		
1-yr. S., 6 to 9 ins. .	.10	.08
2-yr., X, 12 to 18 ins. .	.30	...
2-yr., X, 18 to 24 ins. .	.40	...
HEMEROCALLIS KWANSO. Double, coppery-red, heavy clumps		
	.25	.20
ILEX CRENATA (Japanese Holly), from seeds.		
1-yr., S., 2 to 3 ins. .	...	.04
2-yr., S., X, liners		
6 to 8 ins. ....	.18	.15
3-yr., S., XX, field bed,		
6 to 9-in. spread. .	.50	...
4-yr., S., XX, field bed,		
9 to 12-in. spread. .	.65	...
ILEX CRENATA CONVEXA.		
2-yr., X, cutting-grown liners, 6 to 8 ins. .	.20	.18
PIERIS JAPONICA.		
3-yr., XX, field bed	.50	...
TAXUS HATFIELDI , upright.		
3-yr., XX, field bed,		
8 to 12 ins. ....	.50	.48
6 to 8 ins. ....	.35	.33

Cash with order.

2 per cent discount.

BROOKFIELD GARDENS
DELAWARE, N. J.

alive with monkeys, birds of brilliant plumage and many tropical plants and flowers, including famed orchids. According to Mr. Staton, no difficulty was experienced with government officials, who were uniformly courteous, although Communist sympathies are prevalent throughout the country.

NEW GRAPE RELEASED

The horticultural crops research branch of the United States Department of Agriculture and the New Jersey agricultural experiment station have released for propagation the grape variety Dix, formerly tested as US-712-1. As soon as sufficient plants are available, the variety will be released to fruit growers. The grape originated as a seedling from the cross America x Bailey. Seeds were grown in 1938, and Dix was selected during the fruiting season of 1941. This variety is primarily of value as a juice grape rather than for fresh fruit purposes.

Dix ripens about the same season as Concord. The berries are medium in size and black in color and have a soluble solid content ranging from 16 to 19 per cent and an acidity of 0.7 to 0.8 per cent. The flavor is mild to neutral. The notable feature of the fruit is the intense red coloration in the juice and pulp, and it is suggested that the juice be used for blending with other grape juices when increased coloration is needed. Limited tests have indicated that juice of Dix is satisfactory for such a purpose.

Plants of Dix are vigorous and productive, and the foliage is moderately resistant to diseases. The fruit clusters are medium in size, uniform in shape and usually without a shoulder. The grape has been tested principally in New Jersey and Maryland.

A limited supply of cuttings is available from the horticultural crops research branch and the New Jersey agricultural experiment station. Nurserymen should contact E. G. Christ, agricultural experiment station, New Brunswick, N. J., for cutting wood. After March 15, the cutting wood will be prorated and distributed to the nurseries requesting cuttings.

THE Keeline-Wilcox Nurseries, Montebello, Calif., have taken over the management of the Bassett & Washburn Kentia Nurseries, Sierra Madre, and will consolidate the two companies. Their new company will be known as the Keeline-Wilcox Kentia Nurseries, of Montebello, Calif.

SURPLUS STOCK

Colorado Spruce (*Picea pungens*), sheared, bushy, well-shaped trees. Certified for shipment outside Beetle Zone. Balled and burlapped stock.

	10 Rate Each	100 Rate Each
1000 12 to 15 ins.	\$1.00	\$0.85
800 15 to 18 ins.	1.40	1.25
700 18 to 24 ins.	1.60	1.45
350 24 to 30 ins.	2.00	1.75
50 30 to 36 ins.	2.75	2.50

25 at 100 rate. If you dig, deduct 20c per tree. Nursery pickup only on B&B stock. Bare-root trees packed in moss, deduct 20c each.

SPECIAL—EVERGREEN SEEDLINGS

	Per 100	Per 1000
Colorado Blue Spruce,		
2-yr., 1 to 3 ins.	\$2.50	\$15.00
2-yr., 3 to 6 ins.	3.50	25.00
3-yr., 4 to 8 ins.	4.50	35.00

Scotch Pine,
2-yr., 2 to 4 ins. 2.00 12.50

Austrian Pine,
2-yr., 3 to 6 ins. 3.50 25.00

Larger sizes sold out. Packing free; add 10% for postage for less than 500 plants. 25% cash with order.

GORTON'S NURSERY

R. D. No. 1 HARBORCREEK, PA.
(Nursery located 8 1/4 miles east of Erie, Pa., on U. S. Hwy. No. 5.)

SPRING SURPLUS

75 Amelanchier Grandiflora, 18 to 24 ins.	Per 100 \$125.00
100 Beech, Purple Weeping, 2 to 3 ft.	450.00
100 Davidia, 2 to 3 ft.	600.00
30 Hawthorn, Paul's Scarlet, 7 to 8 ft.	500.00
75 Hornbeam, Fastigate, 2 to 3 ft.	450.00
100 Ilex Helleri, 3-yr., X, 6 to 8 ft.	150.00
100 Pink Dogwood, 8 to 4 ft.	350.00
50 Prunus Kwanzan, 6 to 8 ft.	500.00
15 Prunus Serrulata, double, 2-yr., No. 1	550.00
20 Prunus Serrulata Amanogawa, 6 to 8 ft.	550.00
25 Prunus Serrulata Mt. Fuji, 6 to 8 ft.	550.00
20 Prunus Subhirtella, double, 2-yr., No. 1	550.00
20 Prunus Subhirtella Pendula, 2-yr., No. 1	550.00
25 Silver Linden, 2 to 3 ft.	300.00
50 Smokebush, Purpleleaf, 2 to 3 ft.	150.00

Cash with order.

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We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow **good** evergreen liners. Ask for our wholesale list.

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Perhaps America's largest list of unusual plant materials.

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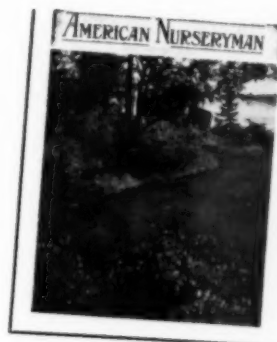
PEARCE SEED COMPANY

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Tell It — Sell It in COLOR

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of the

AMERICAN NURSERYMAN



The July 15 Special A. A. N. Convention Number of the American Nurseryman offers you a once-a-year opportunity to tell your story to the trade in full-page, full-color advertisements at a fraction of the cost you would expect to pay for such display. Here is your chance to present your product in all of its breathtaking natural beauty, superbly reproduced in full color on quality paper.

The American Nurseryman's annual salute to the A. A. N. and the nursery industry is one of the high spots of the year in horticultural journalism. Each year's issue surpasses that of the year before and the editors are determined to make the 1954 issue the finest yet. Why not decide to become a part of this magnificent volume?

Do not wait to send your space reservation — do it now! The low cost is available because we are able to print all full-color advertisements in one press run, and the run must begin early. Therefore, April 1 is the deadline for space orders. If you are in doubt about preparing color advertising, let us know and we will handle all details for you. Put that letter in the mail today!

FULL - COLOR ADVERTISING AT LOW COST

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Chicago 4, Ill.

New Hampshire Growers Meet

By L. A. Dougherty

The New Hampshire Plant Growers Association held its second annual meeting on February 20, in Putnam Hall on the University of New Hampshire campus. About 100 persons were in attendance, and weather conditions were ideal for the meeting.

During the first hour, the greenhouses were open to visitors, who were able to see some of the university's extensive plant-breeding work that is under way. Work is now being done on a wide variety of fruit, vegetable and ornamental products, including melons, blueberries, raspberries, strawberries and lilacs.

All Officers Re-Elected

The meeting opened with a business session at 10 a. m. Re-election of all officers was a highlight of the business session.

Robert Kennedy, chairman of the nominations committee, reported that the committee was asking for continuance of all officers for another year. Since the first year was an organization year, the committee went on record as recommending that the officers have an opportunity to carry out the plans under way. The committee's report was accepted, and the past year's officers will continue in office, as follows: President, Raymond F. Gelineau, Dover — representing nurseryman; vice-president, Glendon Emerson, Westville — representing vegetable growers; vice-president, William P. Holmberg, Rochester — representing florists; vice-president, J. Lincoln Pearson, Quincy—representing seed growers; secretary, Mrs. Kathryn H. Dougherty, Exeter, and treasurer, John A. Lehy, Jr., Dover.

Lawrence Dougherty, extension economist in marketing; William Smith, and Robert Kennedy, associate professors of horticulture, all of the University of New Hampshire, will continue to serve as directors and advisers on the executive committee.

Leaflet Planned

Plans are under way by the publicity committee to issue a leaflet showing locations of subscribing members' establishments and their specialties. A map of the state will be used in the leaflet. A quantity sufficient for mass distribution will be printed. Rita Douphinette, florist, of Laconia, is chairman of the publicity committee.

Henry Clapp, chairman of the

sales committee reported that he had already sent out a new release, called the *Plantsman*. This is devoted to news of the organization. Plans for later issues of the *Plantsman* call for advertising space where members will be able to list items for sale at wholesale prices. Distribution will be exclusively among the members of the association.

J. Lincoln Pearson, chairman of the certification committee, advised that plans for certification can be carried out if growers want such a program and are willing to bear its costs. Because of the extensive plant-breeding work of the university, a program for certifying trueness to name and freedom from disease should be helpful for those who wish to sell the newly named seeds or plants over a wide area. The group

asked for further study and the presentation of a plan.

Lovell Comstock, Sunnyfields, Charlestown, chairman of the membership committee gave a brief report on the growth of the group. Henry Clapp suggested that, for a membership drive, the state be divided into areas, so that each committee member can make personal contact with all growers in his area. Membership in the association now totals 127 persons, including 25 new members who were accepted during the convention.

After the business meeting, there was a talk by the guest speaker, Lloyd Hathaway, Littlefield-Wyman Nurseries, Abington, Mass., on sales promotion. Mr. Hathaway stressed the need to give the customer individual attention and make him feel everything possible is being done to serve him well. This attention will pay off in larger sales, he concluded.

Further discussion centered around effective forms of advertising and the maintenance of an attractive sales-

HEAVY SPECIMEN STOCK

Wholesale quantity

F. O. B. Poughkeepsie, N. Y.

TAXUS CUSPIDATA 2½ to 10 ft.

TAXUS CAPITATA 3 to 10 ft.

NORWAY MAPLE 3 to 7-in. cal.

Also many other varieties in landscape sizes. Stock may be inspected at Bernath Nurseries, on Route 44, between Poughkeepsie and Pleasant Valley.

For further information, inquire at

YOUNG'S NURSERIES, INC.

WILTON, CONN.

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BERNATH NURSERIES,
PLEASANT VALLEY, N. Y.

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For Spring and Fall, 1954

Write for Price List and Planting Guide.

CLEARFIELD BITUMINOUS COAL CORP.

Department of Forests
INDIANA, INDIANA CO., PA.

FIELD-GROWN NURSERY STOCK — SPRING, 1954



Juniperus pfitzeriana Compacta (Nelson Blue Pfitzer variety). See lining-out stock sizes listed below.

100 rate Each	100 rate Each
<i>Azalea Ghent</i> (pontica), beds, 2-yr., XX, field.....	<i>Chamaecyparis plumosa aurea</i> , Each
5 to 8 ins., 3-yr., XX, field.....	5 to 8 ins., 2-yr., X.....
8 to 10 ins., 4-yr., XX, field.....	8 to 10 ins., 3-yr., XX.....
10 to 12 ins., 4-yr., XX, field.....	10 to 15 ins., 4-yr., XX.....
1.00	<i>Ilex crenata</i> (Japanese Holly),
<i>Azalea kaempferi</i> , beds, 2-yr., X.....	6 to 8 ins., 1-yr., X.....
2-yr., X.....	8 to 10 ins., 2-yr., X.....
<i>Azalea mollis</i> , beds, 2-yr., X.....	<i>Ilex crenata convexa</i> (bullata),
5 to 10 ins., 2-yr., X.....	6 to 8 ins., 2-yr., X.....
8 to 10 ins., 3-yr., X, br.....	<i>Ilex crenata helioli</i> , beds, 1-yr.....
10 to 12 ins., 4-yr., XX, br.....	.30
12 to 15 ins., 5-yr., XX, br.....	.30
1.35	<i>Juniperus pfitzeriana compacta</i> 100 rate
<i>Azalea poukhanensis</i> , beds, 2-yr.....	(Nelson Blue Pfitzer variety) Each
<i>Azalea schlippenbachii</i> , beds, 2-yr., X.....	beds, 1-yr., X.....
.25	6 to 8 ins., 2-yr., X.....
<i>Biota orientalis aurea</i> , beds, 2-yr., X.....	.35
4 to 6 ins., 1-yr., X.....	<i>Ilex rotundifolia</i> ,
6 to 8 ins., 1-yr., X.....	6 to 8 ins., 2-yr., X.....
.32	8 to 12 ins., 3-yr., X.....
<i>Buxus sempervirens welleri</i> , beds, 2-yr., X.....	12 to 18 ins., 3-yr., X.....
1-yr., X.....	.75
5 to 10 ins., 3-yr., X.....	<i>Juniper, Andorra</i> ,
.45	6 to 8 ins., 1-yr., X.....
<i>Chamaecyparis lawsoniana allum</i> , beds, 2-yr., X.....	8 to 10 ins., 2-yr., X.....
10 to 12 ins., 2-yr., X.....	10 to 12 ins., 3-yr., X.....
.35	.45
12 to 15 ins., 3-yr., XX.....	<i>Juniper, Golden Pfitzer</i> ,
.45	6 to 8 ins., 2-yr., X.....
<i>Chamaecyparis lawsoniana aurea</i> , beds, 2-yr., X.....	8 to 10 ins., 3-yr., XX.....
10 to 15 ins., 3-yr., X.....	.45
.55	<i>Juniper, Irish</i> ,
<i>Euonymus carrierei</i> , beds, 2-yr., X.....	8 to 12 ins., 2-yr., X.....
8 to 10 ins., 2-yr., X.....	12 to 15 ins., 3-yr., X.....
.25	15 to 18 ins., 4-yr., XX.....
<i>Euonymus fortunei coloratus</i> , beds, 2-yr., X.....	.55
10 to 15 ins., 3-yr., X.....	<i>Juniperus fastigiata</i> (Compact Irish Juniper),
.22	8 to 12 ins., 2-yr., X.....
<i>Euonymus fortunei erectus</i> , beds, 2-yr., X.....	12 to 15 ins., 3-yr., X.....
10 to 12 ins., 2-yr., X.....	.55
.20	<i>Juniperus glauca hetal</i> ,
12 to 15 ins., 3-yr., XX.....	10 to 12 ins., 2-yr., X.....
.35	12 to 15 ins., 3-yr., X.....
<i>Euonymus patens</i> , beds, 2-yr., X.....	15 to 18 ins., 4-yr., X.....
10 to 15 ins., 3-yr., X.....	.70
.35	<i>Juniperus stricta</i> ,
<i>Euonymus radicans coloratus</i> , beds, 2-yr., X.....	6 to 10 ins., 2-yr., X.....
4 to 6 ins., 1-yr., X.....	.35
.18	<i>Juniperus virginiana</i> ,
6 to 8 ins., 1-yr., X.....	6 to 10 ins., 3-yr., X.....
.22	.15
<i>Euonymus vegetus</i> , beds, 2-yr., X.....	
8 to 10 ins., 2-yr., X.....	
.25	
10 to 12 ins., 3-yr., X.....	
.35	
12 to 15 ins., 3-yr., X.....	
.45	

Write for our complete price list.

PALLACK BROS. NURSERIES, INC.

R. D. 1, HARMONY, PA. (31 mi. north of Pittsburgh, Pa., on Rt. 19) Phone: Zelienople 789 (or 644 evenings)

room. An orderly and clean salesroom staffed by neat and courteous salesmen was said to be of vital importance.

In the afternoon, three groups were formed for round-table discussions.

Raymond Gelineau, president, was chairman of the nurserymen's group. His discussion leaders included Lloyd Hathaway, guest speaker of the morning session; Winthrop Thurlow, Cherry Hill Nurseries, West Newbury, Mass.; Harold Eastman, West-

ern Maine Forest Nursery, Fryeburg, Me., and Isaac Williams, Exeter Wild Flower Gardens, Exeter, N. H.

Dr. James Conklin, head of the entomology department; Prof. Avery E. Rich, plant pathologist; Ed Rasmussen, extension horticulturist; Prof. E. M. Meader, associate horticulturist; Prof. Russell Eggert, associate horticulturist, and Dr. W. W. Smith, associate horticulturist, all of the University of New Hampshire, contributed to the discussion.

The new spray materials were dis-

<i>Koeleruteria paniculata</i> (Golden-rain Tree), Each	100 rate
2-yr., X.....	\$0.12
5 to 12 ins., 3-yr., X.....	.18
12 to 18 ins., 3-yr., X.....	.32
<i>Larix europaea</i> (European Larch),	
6 to 10 ins., 2-yr., X.....	.10
10 to 18 ins., 3-yr., X.....	.18
<i>Larix leptolepis</i> (Jap. Larch),	
6 to 10 ins., 2-yr., X.....	.12
10 to 18 ins., 3-yr., X.....	.18
<i>Leucothoe catesbaei</i> ,	
2-yr., X, field beds.....	.32
5 to 10 ins., 3-yr., X.....	.45
<i>Pachysandra terminalis</i> , 2-yr., X.....	.12
<i>Picea excelsa</i> (Norway Spruce),	
4 to 8 ins., 2-yr., X.....	.10
8 to 10 ins., 4-yr., XX.....	.15
10 to 15 ins., 4-yr., XX.....	.20
<i>Picea pungens glauca</i> (Colorado Spruce),	
4 to 6 ins., 2-yr., X.....	.15
6 to 10 ins., 4-yr., X.....	.20
<i>Pieris japonica</i> , beds, 2-yr., X.....	.25
6 to 10 ins., 3-yr., X, field.....	.45
<i>Pinus mugo</i> ,	
4 to 6 ins., 3-yr., X.....	.16
6 to 8 ins., 4-yr., X.....	.20
<i>Pinus nigra</i> (Austrian Pine),	
2 to 4 ins., 2-yr., X.....	.10
<i>Pyracantha coccinea lalandi</i> ,	
6 to 8 ins., 2-yr., X.....	.25
8 to 12 ins., 2-yr., X.....	.32
<i>Rhododendron catawbiense</i> ,	
2-yr., X, field beds.....	.25
3 to 5 ins., 3-yr., XX.....	.35
6 to 8 ins., 3-yr., XX.....	.55
8 to 10 ins., 4-yr., XX.....	.85
10 to 15 ins., 4-yr., X.....	1.00
<i>Rhododendron hybrid</i> ,	
2-yr., X, field beds.....	.35
5 to 8 ins., 3-yr., XX.....	.55
8 to 10 ins., 4-yr., XX.....	.85
<i>Rhus cotinus</i> (Smoke Tree),	
4 to 8 ins., 2-yr., X.....	.10
8 to 10 ins., 2-yr., X.....	.18
<i>Taxus media hicksii</i> ,	
6 to 8 ins., 1-yr., X.....	.28
8 to 10 ins., 2-yr., X.....	.35
<i>Thuja occidentalis</i> (American Arb.),	
10 to 12 ins., 3-yr., X.....	.25
12 to 15 ins., 3-yr., XX.....	.35
15 to 18 ins., 3-yr., XX.....	.45
<i>Thuja occ. douglasii aurea</i> (Golden Arb.),	
4 to 6 ins., 1-yr., X.....	.25
6 to 8 ins., 2-yr., X.....	.35
<i>Thuja occ. douglasii pyramidalis</i> ,	
8 to 10 ins., 3-yr., X.....	.35
10 to 15 ins., 3-yr., X.....	.45
<i>Thuja occ. elegantissima lutea</i> (Geo. Peabody Arb.),	
4 to 6 ins., 1-yr., X.....	.25
6 to 8 ins., 2-yr., X.....	.30
8 to 10 ins., 3-yr., X.....	.35
10 to 15 ins., 4-yr., XX.....	.45
<i>Thuja occ. globosa</i> (Globe Arb.),	
6 to 8 ins., 1-yr., X.....	.25
8 to 10 ins., 2-yr., X.....	.35
<i>Thuja occ. pyramidalis</i> (Pyramidal Arb.),	
6 to 8 ins., 1-yr., X.....	.30
8 to 10 ins., 2-yr., X.....	.35
10 to 15 ins., 3-yr., XX.....	.45
<i>Teuoc canadensis</i> (Hemlock),	
6 to 8 ins., 2-yr., X.....	.25
<i>Viburnum opulus</i> ,	
6 to 10 ins., 1-yr., X.....	.08
10 to 15 ins., 2-yr., X.....	.12
15 to 24 ins., 3-yr., X.....	.18
(Less 10% 1000 rate, 300 at 1000 rate.)	
<i>Viburnum opulus nana</i> ,	
2-yr., X, field.....	.22
(Less 10% 1000 rate, 300 at 1000 rate.)	

TERMS: Cash with order—free packing; otherwise, 1/3 deposit with order and balance C.O.D. All shipments by railway express.

PERENNIAL PLANTS

Large, field-grown stock, dug fresh for each order. Write for list of 150 varieties. Member A. A. N.

GEORGE FRANK & SON

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Box 15 PENFIELD, N. Y.

Lining-out Stock

Two-year grafts in:

- Lilacs in choice varieties (true to name) (sold out)
- Rivers' Purple Beech (sold out)
- Red Japanese Maple (sold out)
- Wistaria Chinensis (blue)
- Wistaria Rosea (pink)

One-year grafts in:

- Japanese Flowering Cherry, Kwanzan (double pink)
- Juniperus Pfitzeriana
- Viburnum Carlesi

Two-year transplants in:

- Forsythia Spring Glory (new)
- Ilex Convexa (cuttings)
- Prunus Maritima (Beach Plum)

One-year transplants in:

- Juniperus Hetzi
- Magnolia Soulangeana (grown from cutting)
- Regel Privet (genuine)

Seedlings in:

- Prunus Maritima (Beach Plum)
- Viburnum Carlesi

Ask for complete list on LINERS and FINISHED STOCK. Your inspection is cordially invited at any time.

C. HOOGENDOORN

Turner Rd. Newport, K. I.

cussed at some length. Malathion and Parathion were recommended as valuable sprays for aphid control on strawberries. Malathion and Fermate were mentioned as good controls for use on roses. Capitan was mentioned as a promising all-purpose fungicide.

Sawdust Mulch

The use of sawdust for a mulch in the nursery and the need for proper use of nitrogen to prevent yellowing were discussed. Harold Eastman told of the use of one to two inches of sawdust on evergreen transplants. They grow all right with the mulch the first year, but 400 to 500 pounds of nitrates an acre are needed to prevent yellowing in the second year.

A fertilizer solution such as Rapid-Gro was recommended for balled evergreens when sawdust is used around them.

Dwarf fruit stocks were discussed by Dr. W. W. Smith. He said that apples on Malling No. 9 break easily unless a stake is used to support them. Malling No. 7 is often used as a semidwarfing stock. Too many nurseries are selling dwarf stocks without enough information concerning the type of stock used, and some types work much better on one variety than on another. On the same dwarfing stock, a Northern Spy will grow larger, and a Wealthy smaller, than a McIntosh. The use of interstocks in dwarfing appears promising, but they must be carefully used in order for them to give uniform results. Dr. Smith has been carrying on experimental work on apple dwarfing stocks for some time.

The need to eliminate trading of many varieties was expressed. Also, it was observed that entirely too many inferior varieties of shrubs, such as lilacs and honeysuckles, and perennials, such as day lilies and iris, are being offered in the trade.

W. B. Holmberg, Studley Flower Gardens, Rochester, was chairman of the florist group. He was aided by James Colprit, superintendent of W. H. Elliott & Sons, Dover, large wholesale rose growers. Mr. Colprit talked on soil sterilization, particularly steam sterilization, and on the practicability of portable equipment for both indoor and outdoor work.

Lovell Comstock discussed geranium culture, and Prof. E. B. Risley, of the horticulture department, talked on handling miscellaneous greenhouse crops, including potted house plants.

The box plant growers also met as a group, with Glendon Emerson, Westville, chairman. He was aided

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Douglas Fir	Per 100
4 to 6 ins., transplants.....	\$15.00
Canadian Hemlock	
4 to 8 ins., transplants.....	17.50
Colorado Blue Spruce	
4 to 8 ins., transplants.....	17.50
Mugho Pine	
4 to 8 ins., transplants.....	20.00
Blue Hetz Spreading Juniper	
6 to 8 ins., transplants.....	22.50
Taxus (best popular varieties)	
6 to 8 ins., transplants.....	25.00
American Holly	
6 to 12 ins., transplants.....	27.50
Viburnum Carlesi	
4 to 8 ins., transplants.....	35.00
Rhododendron Hybrids (from seed)	
4 to 10 ins., transplants.....	45.00
Pink-flowering Dogwood	
6 to 10 ins., bedded grafts..	65.00
10 to 15 ins., bedded grafts..	75.00

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	Per 100	Per 1000
Thuja occidentalis, 6 to 12 ins.....	\$ 5.00	\$40.00
12 to 18 ins.....	7.50	60.00
Tsuga canadensis, 4 to 8 ins.	3.00	20.00
8 to 12 ins.....	5.00	40.00
4 to 8 ins., 2-yr., T.....	10.00	....

HARDY COLLECTED TREES

	Per 10	Per 100
Acer rubrum, 4 to 6 ft. ...	\$ 6.00	\$50.00
Acer saccharum, 4 to 6 ft.....	6.00	50.00
Betula papyrifera, 4 to 6 ft...	5.00	40.00
Quercus rubra, 3 to 4 ft.....	6.00	50.00

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of popular red-berried, evergreen hollies that are in great demand.

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in the discussion by Mrs. George Richardson, a large-scale pansy grower, Northwood, and Reid Parmenter, Pembroke.

The members regarded the meeting as highly successful. Ernest Colpitt, nurseryman, of Dover, was chairman of the program committee and responsible for the program of the day.

A date was set for an executive committee meeting to consider further the plans for publicity, sales letters and certification, as endorsed by the group.

OKLAHOMA CITY NEWS

The members of the Oklahoma City Nurserymen's Association met February 18 for their monthly meeting. The principal business of the meeting was the election of officers. The following nurserymen were elected to office: President, Burl Gulick, Higdon's Flowers & Nursery; vice-president, Merle Booton, Booton's Nursery, and secretary-treasurer, Ezra Campbell, Porter Shop Flowers & Nursery.

Several local nurserymen have appeared on radio and TV programs in connection with the spring flower show, held March 13 and 14. Nurserymen, florists and seedsmen assisted local garden clubs with the staging of the flower show, which was entitled "A Preview of Spring." The show was held in the Hall of Mirrors, a large room in the Municipal Auditorium. Considerable interest was shown in the project, which had a strong civic appeal as most of the funds will be used to improve the garden center at Will Rogers park.

There were exhibits, lectures and panel discussions, with something of interest and significance going on every hour of the 2-day event. Exhibits included one set up by Oklahoma Agricultural and Mechanical College and entries by 4-H Clubs and junior garden clubs.

Appearing on radio and TV programs recently were Gene Fleming, Southern Nursery Co.; Bob Burrows, Capitol Gardens Nurseries, and Bruce Rey, Rey's Nursery. The nurserymen gave professional tips on how to care for plantings, the right way to prune, etc. B. H. P.

IT HAS been learned that Harold Atwater, Atwater Nurseries, Agawam, Mass., was chosen a delegate to the American Association of Nurserymen by the New England Nurserymen's Association at its recent convention.

LINING-OUT STOCK

One of the most common causes of loss in the nursery business is failure of lining-out stock to grow. Every liner that fails to grow increases the original cost of those that survive. Poor stands not only result in higher costs for lining-out stock but cost more to cultivate and produce less salable stock.

It will pay you to plant Willis pot-grown liners. Sturdy pot-grown liners give best results. Their well-established root systems are ready to support the plants immediately upon transplanting, resulting in better stands in the field. In the long run, potted liners are more economical.

Minimum order, 25 of a variety and size.

R.C.—rooted cuttings transplanted into flats.

300 at 1000 rates.

SHRUBS

	100 rate Each	1000 rate Each
<i>Aronia arbutifolia</i> brilliantissima, 2-in. pots.....	\$0.25	\$0.22
<i>Berberis mentorensis</i> , 2-in. pots.....	.25	.22
R.C. ....	.17	.15
<i>Buddleia</i> (Butterfly Bush)		
Charming, R.C. ....	.12	.10
Dubonnet, R.C. ....	.12	.10
Floralini, R.C. ....	.12	.10
Red, R.C. ....	.12	.10
White Cloud, R.C. ....	.12	.10
<i>Callicarpa</i> (Beauty-berry)		
Dichotoma, 2-in. pots.....	.17	.15
<i>Caryopteris</i> (Blue Mist)		
Lucana, 2-in. pots.....	.17	.15
<i>Cotoneaster</i>		
Acutifolia, 2-in. pots.....	.17	.15
Adpressa praecox, 2-in. pots.....	.22	.20
Divaricata, 2-in. pots.....	.22	.20
<i>Cydonia japonica</i> (Flowering Quince)		
Glowing Ember, layers....	.12	.10
<i>Forsythia</i>		
Fortunei, 2-in. pots.....	.17	.15
Intermedia spectabilis, 2-in. pots.....	.17	.15
Ovata, 2-in. pots.....	.20	.17
Spring Glory, 2-in. pots....	.20	.17
<i>Hydrangea paniculata</i> grandiflora		
Meehan Strain, layers....	.15	.12
<i>Hypericum</i>		
Hidcote, 2-in. pots.....	.20	.17
Kalmianum, 2-in. pots.....	.22	.20
<i>Kolkwitzia</i>		
Amabilis, 2-in. pots.....	.22	.20
<i>Lonicera</i> (Honeysuckle)		
Clay's Dwarf, 2-in. pots.....	.25	.22
Fragrantissima, 2-in. pots.....	.20	.17
Korolkowi, 2-in. pots.....	.22	.20
Korolkowi floribunda, 2-in. pots.....	.22	.20
Morrowi, 2-in. pots.....	.17	.15
Tatarica rubra, Wheeling, 2-in. pots.....	.17	.15
<i>Philadelphus</i> (Mock Orange)		
Lemoinei, Avalanche, 2-in. pots.....	.20	.17
Lemoinei, Enchantment, 2-in. pots.....	.20	.17
Viminalis, 2-in. pots.....	.17	.15
<i>Rosa multiflora japonica</i> 2 1/8 to 3/16-in. caliper....	.04	.03
<i>Sambucus</i> (Elder)		
Canadensis aurea, 2 1/8-in. pot.....	.17	.15
<i>Spiraea</i>		
Anthony Waterer, 2-in. pots.....	.20	.17
Arguta, 2-in. pots.....	.17	.15
Bethlehemensis, 2-in. pots.....	.17	.15
Froebeli, 2-in. pots.....	.17	.15
Reevesiana, dbl., 2-in. pots.....	.22	.20
<i>Viburnum</i>		
Opulus, 2 1/8-in. pots.....	.17	.15
Opulus sterile, 2 1/8-in. pots.....	.17	.15

VINES

	100 rate Each	1000 rate Each
<i>Celastrus</i> (Bittersweet)		
Scandens, 2-in. pots.....	\$0.17	\$0.15
<i>Lonicera</i> (Honeysuckle)		
Japonica halliana, 2-in. pots.....	.15	.12
Japonica, purpleleaf, 2-in. pots.....	.17	.15
<i>Sempervirens magnifica</i> (Dreer's), 2-in. pots.....	.20	.17
<i>Sempervirens</i> , yellow, 2-in. pots.....	.17	.15
<i>Tellmanniana</i> , 2-in. pots....	.20	.17

EVERGREENS

<i>Juniperus</i>		
<i>Chinensis pfitzeriana</i> , 2 1/4-in. pots.....	.25	.20
<i>Chinensis pfitzeriana</i> , 2 1/2-in. pots.....	.30	.25
<i>Chinensis pfitzeriana compacta</i> (Kallay's), 2 1/4-in. pots.....	.30	.25
<i>Chinensis pfitzeriana compacta</i> (Kallay's), 2 1/4-in. pots.....	.25	.20
<i>Glauca hetzi</i> , 2 1/4-in. pots.....	.25	.20
<i>Horizontalis plumosa</i> (Andorra), 2 1/4-in. pots.....	.25	.20
<i>Sabina tamariscifolia</i> (Tamarix J.), 2 1/4-in. pots.....	.30	.25
<i>Sabina tamariscifolia</i> (Tamarix J.), 2 1/4-in. pots.....	.25	.20
<i>Sabina vonechron</i> , 2 1/4-in. pots.....	.30	.25
<i>Sabina vonechron</i> , 2 1/4-in. pots.....	.25	.20

BROAD-LEAVED EVERGREENS

<i>Euonymus</i>		
<i>Patens</i> , large leaf, 6 to 10 in. ....	.20	
<i>Fortunei coloratus</i> , 2-in. pots.....	.20	.15
<i>Fortunei minimus</i> , 3-in. pots.....	.30	.25
<i>Fortunei minimus</i> , 2-in. pots.....	.25	.20
<i>Fortunei</i> , upright, 2-in. pots.....	.30	.25

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Each
6 to 8 ins., 2-yr., T.....15c
8 to 10 ins., 2-yr., T.....20c

Pieris Japonica

Each
4 to 6 ins., T.....15c
6 to 8 ins., T.....20c

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Red foliage in spring; purplish-red flowers in May. Red berries. An interesting, rare shrub. Very hardy.

\$7.50 per 100.

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Well-shaped, artistic-looking shrub. Clean foliage. Fragrant white flowers, followed by masses of Wedgwood blue berries.

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Enkianthus
Enkianthus Campanulatus

For those desiring a different kind of a plant for the shrub border or ericaceous plantings we recommend *Enkianthus campanulatus*. Red stems, dark green leaves, cream to pink bell-like flowers, that are useful for flower arrangements and a scarlet fall foliage. 8 to 12 ins., T.....\$15.00 per 100

Magnolia Soulangeana
Magnolia Soulangeana Nigra
Magnolia Stellata
Magnolia Rustica Rubra
Magnolia Alba Superba

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COTONEASTER DIVARICATA

10 to 12 ins.,\$0.09
 12 to 15 ins.,10
 15 to 18 ins.,12

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Coming Events**MEETING CALENDAR**

March 22 to 24, Southern Shade Tree Conference, Battery Park hotel, Asheville, N. C.

May 5 to 8, Western chapter, National Shade Tree Conference, Hotel Claremont, Oakland, Calif.

May 30 to June 1, Alabama Nurserymen's Association, Admiral Semmes hotel, Mobile, Ala.

June 21 and 22, Mississippi Florists' and Nurserymen's Association, Buena Vista hotel, Biloxi, Miss.

July 18 to 22, American Association of Nurserymen, Hotel Radisson, Minneapolis, Minn.

August 22 to 24, Southern Nurserymen's Association, Roosevelt hotel, Jacksonville, Fla.

August 30 to September 3, National Shade Tree Conference, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

September 7 to 9, California Association of Nurserymen, Hotel Coronado, Coronado, Calif.

October 1 to 3, Texas rose festival, Tyler, Tex.

WESTERN SHADE TREE MEET

Plans for the western chapter, National Shade Tree Conference meeting, at Oakland, Calif., May 5 to 8, to be held at the Claremont hotel, are nearing completion. This announcement was made recently, at a northern section meeting, at Palo Alto, Calif., by Lynn Harriss, assistant park superintendent, of Oakland, who is president of the chapter.

With the theme "Keep That Tree Alive," the program will include men prominent in the fields of arboriculture and horticulture. Members attending from the 10 western states and British Columbia will also see a demonstration of the latest in tree service equipment at an outdoor exhibit in Lakeside park. They will tour the California Spray Chemical Co., Richmond, and attend a luncheon at the Richmond Country Club. Election of officers for the coming year will take place on May 5, and new officers will be installed May 7 during the banquet at the Claremont hotel.

Among those who are scheduled to participate in the panel discussions and general sessions as guest speakers are Prof. P. A. Miller, plant pathologist, University of California at Los Angeles; Max Leonard, agricultural commissioner, San Mateo

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Ampelopsis veitchii (Boston Ivy)		
1-yr., S.	\$6.00	\$40.00
Berberis thunbergii (green)		
2-yr., S., 4 to 9 ins. . .	5.00	35.00
2-yr., S., 9 to 12 ins. . .	6.50	50.00
Berberis thunbergii atropurpurea (Redleaf)		
2-yr., S., 4 to 9 ins. . .	6.00	40.00
2-yr., S., 9 to 12 ins. . .	9.00	75.00

Ask for list.

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EVERGREENS**NORTHERN-GROWN**

Canadian Hemlock, American Arborvitae, Balsam Fir.

	Per 100	Per 1000
2 to 4 ins., sdgs. . . .	\$ 1.00	\$ 5.00
3 to 6 ins., sdgs. . . .	2.00	10.00
6 to 9 ins., sdgs. . . .	3.00	20.00
9 to 12 ins., sdgs. . . .	7.00	45.00
12 to 18 ins., sdgs. . . .	9.00	70.00
18 to 24 ins., sdgs. . . .	25.00	....

Freshly collected. Well-rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

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Whole roots and cuttings.

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Well-grown Specimen Stock

Arborvitae	Pfitzer Juniper
Dark Green	Blue Hets Juniper
American	Swedish Juniper
Pyramid	Taxus, in variety
Woodward Globe	—Write for
Berckmans Golden	Complete List—

ORNAMENTAL SHRUBS

Aronia melanocarpa, 18 to 24 ins.
Berberis koreana, 24 to 30 to 36 ins.
Deutzia lemoinei compacta, 15 to 18 to 24 ins.

Forsythia spectabilis, up to 4 to 5 ft.
Kolkwitzia amabilis, 18 to 24 to 30 ins.
Spiraea thunbergi, 18 to 24 to 30 ins.
Snowberry, racemosus, 2 to 3 to 4 ft.
Viburnum americanum, 2 to 3 to 3½ ft.

Magnolia Soulangeana, 4 to 5 ft.
Poplar, Lombardy, 4 to 6 to 8 ft.

LINING-OUT STOCK

Euonymus Alatus
Euonymus Yeddoensis
Hamamelis Vernalis
(Winter-flowering Witch Hazel)
Kolkwitzia Amabilis
Viburnum Burkwoodi
Viburnum Carlesii
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— Many other Varieties —

— Special —
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Burkwoodi,
and Hamamelis Vernalis

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county; Dr. Willis W. Wagener, senior pathologist, United States forest service, Berkeley; Newton Drury, chief, state division of beaches and parks; Dr. George S. Hensill, California Spray Chemical Co.

SOUTHERNERS TO MEET

The 1954 convention of the Southern Nurserymen's Association will be held at Jacksonville, Fla., August 22 to 24, with headquarters at the Roosevelt hotel.

BRUSH KILLERS VALUABLE

Ways to cope with unwanted woody plants have multiplied with research on chemical weed control, according to Dr. Otis F. Curtis, Jr., Cornell University plant scientist at the experiment station at Geneva, N. Y. Even such persistent pests as locust sprouts succumb to a mixture of two potent hormone sprays, 2, 4, 5-T and 2, 4-D, applied to the base of the sprouts during the winter or early spring.

"The newest methods of combating brush and unwanted trees offer help on some problems that were previously troublesome," said Dr. Curtis. Neither of the chemicals recommended offers any hazard to humans or to animals, he explained.

NEW....

TAXUS NATORPIANA, offered for the first time. Many years ago we found in our trial grounds an outstanding Taxus. The original plant, now 14 ft. across and 4 ft. high, is a very compact spreader with fine dark green foliage. We feel there is a good future for this plant. This spring we have available 10,000 four to six-inch cuttings made in fall, 1952, trimmed back and placed outside in flats in spring, 1953. These are stocky, compact, first-time-transplanted cuttings, requiring little trimming, and will make up faster than *Cuspidata*.

\$30.00 per 100

\$275.00 per 1000



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Write for our surplus list of finished Taxus and other plants.

LINING-OUT STOCK

Write for illustrated list.

	Per 100	Per 1000
Black Hills Spruce, XX, 12 to 15 ins.	\$50.00	....
XX, 9 to 12 ins.....	30.00	....
X, 6 to 9 ins.....	15.00	....
3-2, 4 to 8 ins.....	10.00	\$ 75.00
Colorado Blue Spruce, 2-0, 4 to 6 ins.	7.50	32.00
2-0, 2 to 4 ins.....	5.00	20.00
Scotch Pine, XX, 18 to 24 ins.	50.00	....
XX, 12 to 18 ins.....	30.00	....
2-2, 6 to 12 ins.....	12.00	100.00
Austrian Pine, 2-1, 2 to 4 ins.	8.00	35.00
Douglas Fir (Snowy Mountain), X, 4 to 10 ins.	15.00	125.00
Douglas Fir (Pseudotsuga taxifolia glauca)		
2-2, 6 to 12 ins.....	15.00	125.00
Douglas Fir (flathead), 2-2, 4 to 10 ins.	15.00	125.00
Norway Pine, 2-1, 2 to 4 ins.	5.00	25.00
White Birch, X, 15 to 30 ins.	25.00	....

Scotch Pine Christmas Tree Stock

Our Scotch Pine, in both seedlings and transplants, is heavier stock than before.

	Per 100	Per 1000	Per 1000 (in lots of 10,000)	Per 1000 (in lots of 100,000)
Riga Scotch Pine, 2-1, 3 to 8 ins.	\$10.00	\$45.00	\$40.00	....
2-0, 3 1/2 to 8 ins.....	7.50	26.00	24.00	\$22.50
2-0, 2 to 3 1/2 ins.....	4.00	16.00	15.00	14.00
Scotch Pine, 2-0, 3 to 6 ins.	5.00	22.00	20.00	....

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Packing charge included in tree prices. Minimum order \$10.00.

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EUONYMUS ERECTUS

12 to 15 ins., T.35c
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Hydrangea P. G.

Hydrangea P. G. (Tree Form)

Grapevines, 1-yr.

Ornamental Trees

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Lining-out Stock a Specialty
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GYPSY MOTH OUTBREAK

The worst gypsy moth outbreak on record is expected to strike Connecticut this year, according to Neely Turner, chief entomologist at the Connecticut agricultural experiment station. An insect pest that attacks forests and woodlands, the gypsy moth reaches serious population proportions only once in several years, and 1954 is one of them. Fortunately, effective control measures, at what seem to be reasonable costs, are available for those who own valuable woodlands.

To date, scouts from the experiment station have found more than 175,000 acres in Connecticut which are threatened with complete defoliation unless sprayed. Their estimate is based on the number of egg masses present in susceptible woodlands at the present time.

These egg masses hatch around the first of May, and the young caterpillars begin to feed immediately on the foliage of susceptible trees. The varieties most in danger of defoliation are oak, and white and gray birch.

Protective sprays of DDT are most effective if applied immediately after the first gypsy moth eggs hatch. Since most areas where the gypsy moth occurs are difficult to spray efficiently from the ground, aircraft spraying gives the most effective and economical control.

Complete details on spray materials and methods are given in a new experiment station circular, which is available on request to the Connecticut Agricultural Experiment Station, P. O. Box 1106, New Haven, Conn.

NURSERYMEN'S TOUR

A "Nurserymen's Tour to Europe" is the name given to a novel 2-week trip featuring the principal gardens and horticultural centers of England, France, Belgium and Holland. Gardeners, growers, designers and exhibitors alike will find a varied program to suit their tastes and preferences in this tour.

B. B. Stangler, secretary of the New York State Nurserymen's Association, who majored in ornamental horticulture at the University of Minnesota and Cornell University, and completed advanced study in landscape design in Shrivensham, England, will lead the party. Mr. Stangler is the owner and operator of Land O'Trees Landscape Service, Williamsville, N. Y. Transmarine Tours, 500 Fifth avenue, New York city, is planning the tour.

WHY WEED CONTROL FAILS

There are a number of reasons why weed killers may not live up to expectations. Writing in the January, 1954, issue of *Maine Farm Research*, a publication of the Maine agricultural experiment station, Orono, Me., Prof. M. F. Trevett, associate agronomist of the University of Maine, points to several factors that may cause failure.

Selective weed killers, he suggests, are not completely selective in their actions. The dinitro herbicides injure peas and oats. In extremely weedy fields, their application may be successful because the weeds do more damage to the crop than do the herbicides, but in fields with a small weed population, the herbicides may reduce the yields.

Another cause of failure pointed out by Professor Trevett is that the seed toxicant weed killers are not effective on established weeds. They must be applied before weed seeds germinate.

Another factor of importance is moisture. He reports that during the past summer the growers who used toxicants before or after irrigation obtained the best results.

A final factor is the failure of timing in applying the toxicants. Past recommendations have been to apply them 48 hours before crop emergence. Differences in weather, he said, have made it difficult to forecast the time closely enough to obtain satisfactory results.

The recommendation for 1954, he said, is that the toxicants should be applied when an estimated 5 per cent of the tips or crooks of crop seedlings are barely visible. This is said to provide maximum weed control and minimum crop injury.

PUPILS LEARN PLANTING

The Chicago Horticultural Society has set up a program to make school children more garden conscious. It distributed in February 10,000 hyacinth bulbs to fourth, fifth and sixth grade classrooms with advice on bringing them into full bloom by May. More than 100,000 pupils will participate in the project to develop a lasting interest in plant culture. The bulbs were contributed by the Associated Bulb Growers of Holland.

The school program began the past year when the society furnished propagating kits and instructions for rooting begonias and growing coleus plants from cuttings. It created such interest that the society decided to make the program one of its regular activities.

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AN-1

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	Per 100	Per 1000
Azalea calendulacea, 10 to 12 ins., TTT.....	\$40.00	\$350.00
Azalea mollis, 4 to 8 ins., TT.....	15.00	125.00
Azalea mucronulata, 6 to 8 ins., TT.....	18.00	150.00
Azalea pontica, 4 to 8 ins., TT.....	15.00	125.00
Ilex crenata convexa, 6 to 8 ins., TT.....	18.00	165.00
Ilex crenata helleri, 3 to 6 ins., TT.....	18.00
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All plants grown in field beds with full sun. 300 at 1000 rate. No charge for packing. Cash with order, please.

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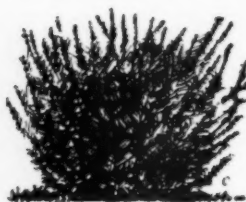
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2 years in open field beds.

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Hicksi, 4 to 6 ins.	\$0.30	\$0.25
Hicksi, 6 to 9 ins.	.35	.30
Intermedia, 4 to 6 ins.	.30	.25

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Finished Stock
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for Christmas trees and
reforestation.

	Per 100	Per 1000
SCOTCH PINE, Riga Strain (2-0) 5 to 8 ins.	\$6.00	\$32.50
AUSTRIAN PINE (2-0) 4 to 7 ins.	5.00	30.00
AUSTRIAN PINE (3-0) 6 to 12 ins.	7.00	40.00

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EUONYMUS VEGETUS

(Bigleaf Winter Creeper)
8 to 10 ins., T.25c
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STRONGER SPRAYS MAY GIVE LESS PROTECTION

"If a little is good, a lot is better" does not necessarily apply to agricultural sprays, a series of experiments recently completed by Dr. Saul Rich, plant pathologist at the Connecticut agricultural experiment station, New Haven, Conn., has shown. Contrary to what one might expect, doubling the quantity of active spray ingredient in the spray tank does not double the quantity retained on the leaf surfaces of the crops to be protected, at least in the case of some sprays. With these chemicals, the point of diminishing returns is reached rapidly.

Dr. Rich's experiments were conducted with Bordeaux mixture and Zineb, two fungicides commonly used as sprays on ornamental crops. The materials were applied separately to beans and celery in varying concentrations at weekly intervals. Leaf samples were taken immediately before and after each spraying and analyzed for the quantity of spray they retained. The sampling before spraying showed how much deposit remained from the previous treatment after a week's weathering.

In the case of Bordeaux mixture the gain in deposit became less and less when spray liquids were used which were more concentrated than 4-2-100 (four pounds of copper sulphate and two pounds of lime to 100 gallons of spray).

Zineb acted differently. Deposits rose regularly as concentrations were increased.

Dr. Rich believes that the different behaviors of the two sprays may be explained by the laws of adsorption. One of the features of adsorption is the ability of a surface to withdraw and retain tiny solid particles from a liquid carrier. Adsorptive surfaces manage this by the old law of attraction of opposites. A negatively charged surface attracts positively charged particles and vice versa. For retention, however, the two must be in direct contact. It is known that leaf surfaces are negatively charged; Bordeaux is positive. As the positively charged Bordeaux molecules hit the negatively charged leaf surface, they become firmly attached to it by adsorptive forces. As concentration increases, however, there are soon too many Bordeaux particles for the available surface room and the excess particles wash off onto the ground in the run-off liquid.

Zineb, on the other hand, is negatively charged and cannot be

for SPRING DELIVERY

AUSTRIAN PINE—\$35.00 per 1000

4 to 6 ins., 2-yr. seedlings

SCOTCH PINE (Riga Var.)—\$30.00 per 1000

4 to 6 ins., 2-yr. seedlings

6 to 8 ins., 2-yr. seedlings—(\$40.00 per 1000)

RED PINE—\$20.00 per 1000

4 to 6 ins., 2-yr. seedlings

RED PINE—\$65.00 per 1000

8 to 12 ins., 4-yr. transplants

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adsorbed onto the negative leaf surface. Thus the only Zineb particles which are retained by the sprayed leaf are those which remain in the liquid drying on the leaves. As all the experiments were designed to spray the same volume of liquid on the foliage, the Zineb residue will be directly proportional to the concentration of Zineb particles in the spray liquid.

The two spray materials weathered differently also. With Bordeaux, the larger the initial deposit, the greater the quantity left after weathering. With Zineb, the greater the initial deposit, the less remained.

The practical implications of Dr. Rich's experiments are obvious. They show, for example, that increasing Bordeaux concentration much beyond 8-4-100 might be inefficient. Some growers are using much higher concentrations than this. The experiments also demonstrate that Bordeaux weathers much more slowly than Zineb and thus applications of this material might be spaced farther apart.

CALIFORNIA STATE POLYTECHNIC COLLEGE students are learning tractor skill by preparing the ground for the school's new ornamental horticulture unit.

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SHRUBS

	Per 100	Per 1000
Barberry, Red, 12 to 15 ins., br., T., 2-yr.	\$ 25.00	\$200.00
Barberry, Red, 9 to 12 ins., br., T., 2-yr.	17.50	150.00
Caryopteris Blue Mist, 18 to 24 ins.	50.00	450.00
Cornus Florida Rubra, 18 to 24 ins.	175.00	.....
Cornus Florida Rubra, 2 to 3 ft.	200.00	.....
Honeysuckle, Morrow, 2 to 3 ft.	35.00	300.00
Honeysuckle, Morrow, 3 to 4 ft.	40.00	350.00
Honeysuckle, Zabel, 2 to 3 ft.	40.00	350.00
Honeysuckle, Zabel, 3 to 4 ft.	45.00	400.00
Hydrangea Acuminata, 2-yr., field-grown	65.00	.....
Privet, Amur River North, 18 to 24 ins., 3 br.	15.00	125.00
Rosa Hansa, 2-yr., No. 1 1/2	45.00	400.00
Spiraea Opulifolia Nana, 18 to 24 ins.	30.00	250.00
Spiraea Opulifolia Nana, 2 to 3 ft.	40.00	350.00
Spiraea Vanhouttei, 2 to 3 ft.	30.00	250.00

Lining-Out Shrubs

Barberry, Green, 9 to 12 ins., S.	7.50	60.00
Barberry, Redleaf, 4 to 8 ins., T., 2-yr.	10.00	90.00
Cotoneaster Divaricata, 10 to 12 ins.	15.00	125.00
12 to 15 ins.	17.50	150.00
15 to 18 ins.	20.00	175.00
Euonymus Alatus Compactus, 8 to 12 ins., T.	30.00	250.00
Rhodotypos Kerrioides, 6 to 12 ins., S.	12.50	100.00
Rhus Cotinus, 6 to 9 ins., S.	15.00	125.00
Viburnum Dentatum, 6 to 9 ins., S.	12.50	100.00
Viburnum Dentatum, 10 to 12 ins., S.	15.00	125.00
Viburnum Lentago, 10 to 12 ins.	15.00	125.00
Viburnum Opulus, 10 to 12 ins.	15.00	125.00
12 to 15 ins.	17.50	150.00
15 to 18 ins.	20.00	175.00

(250 each at 1000 rate)

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ROSA MULTIFLORA —Best thorny, upright type from selected midwest fence parent stock.	Per 1000
2 1/16 to 3 1/16-in. cal., 12 to 15 ins.	\$15.00
3 1/16 to 1/4 -in. cal., 15 to 18 ins.	22.00
1/4 to 3/8 -in. cal., 18 to 24 ins.	35.00

Above Multiflora prices apply on units of 1000 plants only. No discount regardless of quantity ordered.

SPECIAL—EXTRA-HEAVY MULTIFLORA—5/16 to 1/2-in. cal., well branched—our "Country Club" grade—11c each per 100 or more.

Our Pine seedlings are good-calipered little fellows. The right size for banding, potting or transplant beds. If you have tried to buy finished pines lately, you know they are a good investment.

Pinus resinosa (Norway Pine).	2-yr., 2 to 4 ins.	3 1/2 c
Pinus strobus (White Pine).	2-yr., 2 to 4 ins.	3 1/2 c
Pinus sylvestris , heavy caliper. Best good-color, fast-growing type Scotch Pine.	2-yr., 9 to 12 ins.	3 c
Pseudotsuga taxifolia (Douglas Fir), Colorado selection.	2-yr., 4 to 6 ins.	3 c
	2-yr., 6 to 8 ins.	4 1/2 c
Ulmus pumila . And they are straight as a string. (Siberian or Chinese Elm)	2-yr., 12 to 18 ins.	1 1/2 c
	2-yr., 18 to 24 ins.	2 c
	2-yr., 2 to 3 ft.	3 1/2 c
	2-yr., 3 to 4 ft.	5 1/2 c

Samples on request. Specify varieties in which interested and send \$1.00 to cover mailing.

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GROWN
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**FORREST KEELING NURSERY
ELSBERRY, MO.**

Hugh Steavenson, Prop.



BOOK REVIEWS

SECRET OF GREEN THUMB

"To give gardeners the scientific facts about plants on which all gardening methods must be based" is the object set forth opening the preface of "The Secret of the Green Thumb," by Henry T. Northern, professor of botany at the University of Wyoming, and his wife, Rebecca T. Northern, a contributor to garden magazines. Just published by the Ronald Press Co., at \$5, this volume of over 400 pages explains the why of garden operations rather than the how.

Plant parts, how they are formed and do their work, the elements from which they derive their nourishment, the processes of propagation, growth and flowering, the types of pests and their controls, and the determination of plant families and communities—all are described, simply and in much more detail than appears here. The 200 illustrations add greatly to quick understanding of the text.

As an up-to-date survey of plant life for the uninitiated, this book is highly recommended. To those who have not had formal education in horticulture, the book will be informative, broadening and highly interesting.

BOOK ON STRAWBERRIES

"The How-To Book on Strawberries," by Robin Wyld, published by The Berry Patch, Honeoye Falls, N. Y., at \$1.50, is an interesting little book of 112 pages on growing strawberries. It is unique in the way it is put together and in the practical, timely information which it contains. It is put up in the modern touch with black and white drawings and caricatures of strawberry operations.

H. B. T.

DAHLIAS FOR THE GARDEN

Addition to the recently increasing popularity of the dahlia can be expected through the recent publication of a needed book on that flower for the uninstructed home gardener. "Dahlias for Every Garden," by Mrs. Marian C. Walker, published by M. Barrows & Co., at \$2.95, provides for the beginner the informa-

COTONEASTER

BUDDLEIA—Summer Lilac

Finished Stock—Landscape Size

Cotoneaster divaricata , well branched	Each
2 to 3 ft., B&B	\$1.75
3 to 4 ft., B&B	2.00
Excellent stock for hedging purposes.	
Cotoneaster zabeli , gray-foliated, 2-yr., T.	
18 to 24 ins., B&B	1.50
Buddleia (Summer Lilac), bare roots	
Charming, pink, Per 10 Per 100	
18 to 24 ins.	\$3.50 \$30.00
Dubonnet , lavender, 2 to 3 ft.	4.50 40.00
Dubonnet , lavender, 18 to 24 ins.	3.50 30.00
Imperial Purple , purple, 18 to 24 ins.	4.50 40.00
Red Velvet , red, 12 to 15 ins.	3.50
Royal Scarlet , deep red, 12 to 15 ins.	3.50
Snowbank , pure white, 18 to 24 ins.	4.50
Snowbank , pure white, 15 to 18 ins.	3.50 30.00
Order Now for Spring Delivery.	

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tion he requires to make headway in dahlia culture, from selecting the types and varieties to grow up to the point of staging them in a show. Cultural advice is thorough, but other counsel is equally well presented to facilitate choosing dahlias adapted to one's locality and garden. The 128 pages of text are supplemented by three illustrations in color, 12 in black and white and six helpful drawings.

MARYLAND SHORT COURSE

[Continued from page 11]

use these to advantage, he stated. Dr. Keller then briefly reviewed some of the troubles nurserymen often encounter when trace elements are lacking. He cited a recent case in which he found heavy losses in ilex because of a boron deficiency. He also discussed the value of the proper soil pH for growing yews. He stated that it has been found that yews grow best at a pH of about 6.5 and that they do not grow satisfactorily when the pH of the soil falls below 5.6.

Next on the program was Dr. Conrad B. Link, of the university's department of horticulture. He outlined the curriculum offered at the university for training nurserymen. Dr. Link pointed out that most graduates in ornamental horticulture, while they may be thoroughly trained in the basic plant sciences, still need practical experience before they can expect to become fully efficient. A lively discussion followed on how these men can best achieve this.

The final topic discussed involved problems commonly encountered by both the employer and employee. This was led by John Haut, of the Maryland state employment service.

Business Meeting

After the short course program, a brief business meeting was held. At this meeting it was voted to make two changes in the constitution and one in the bylaws, so that the association will have a better opportunity to classify its members and investigate the ethics, standards and integrity of proposed new members. The association also authorized the making of decals of the association's seal and their distribution to the members for use on trucks, cars, store windows, etc.

Another project authorized, on an experimental basis, was the members' use of the association's seal for co-operative advertising in newspapers and on television.



Dark Green American ARBORVITAE

These quality liners will develop into B&B specimens in a very short time. Planted in 12-in. rows, 12 ins. apart, they have developed into really fine liners. Could also be potted up for cash-and-carry sales.

SIZE	25 to 250	250 to 1000
12 to 15 ins.	35c	30c
15 to 18 ins.	50c	45c
18 to 24 ins.	70c	65c

No packing charge.

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Have you been looking for large, five-year-old, jumbo-size apple trees in McIntosh, Red and Yellow Delicious, Black Jonathan, Early Harvest, Turkey, Anoka, Wealthy, Grimes Golden, Gano and crab apple trees in Lodi and Coronaria?

	Each	Each per 10
1 to 1 1/4 -in. cal.	\$1.25	\$1.00
1 1/4 to 1 1/2 -in. cal.	1.60	1.40
1 1/2 to 2 -in. cal.	2.75	2.50
Apple scions in above varieties, \$12.50 per 1000; will average 2 1/2 to 3 cuts. Write us for special prices on apple grafts in above varieties.		

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Sweet Gum and Pin Oak	Each per 10
8 to 10 ft., B&B	\$ 6.50
1 1/4 to 1 1/2 -in. cal., B&B	7.50
1 1/2 to 2 -in. cal., B&B	8.50
2 to 2 1/2 -in. cal., B&B	9.50
2 1/2 to 3 -in. cal., B&B	12.50
\$1.50 less for bare-root trees.	

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2000 SPECIMEN HEMLOCK

Heavy. Three times transplanted.

3 to 4 ft., B&B	\$5.50
4 to 5 ft., B&B	7.00

RED PINE

7 to 8 ft., B&B	9.00
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WHITE DOGWOOD

5 to 6 ft., B&B	3.50
6 to 7 ft., B&B	4.50
7 to 8 ft., B&B	6.50
8 to 9 ft., B&B	7.50

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Richard Wyman, Jr., center, Framingham, Mass., introduces two American Association of Nurserymen "Plant America" industrial landscaping award winners at the recent meeting of the Connecticut Nurserymen's Association. Left is Gerald Daven, of the Phoenix Insurance Co., Hartford, Conn., and right is Peter J. Cascio, the Peter Cascio Nursery, West Hartford, Conn. Mr. Cascio's nursery landscaped the Phoenix building, shown at lower left.

"Plant America"

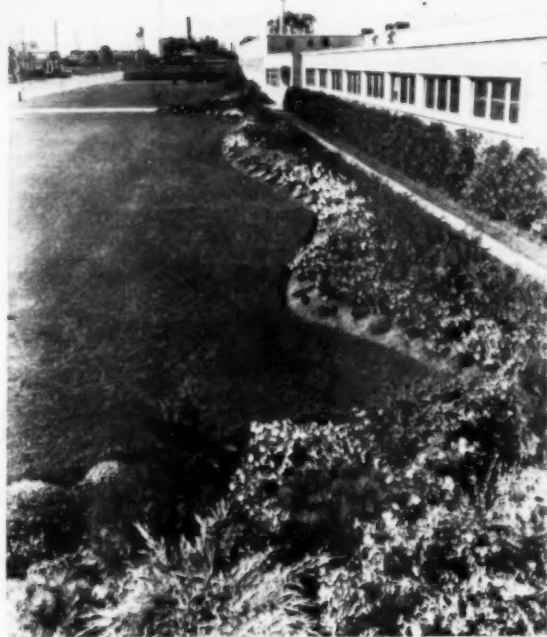
One of the most significant "Plant America" program of the American Association of Nurserymen and potentially to the nursery industry was the awards competition sponsored by the association, which attracted entries from the nation's leading industrial firms. American Nurseryman presents a complete guide to this competition, with a number of winning industrial landscaping representative nurserymen and industrial awards. Beginning on page 8 is a list of award winners in the field of industrial landscaping for nurserymen. Additional pages 8, 9, 10 and 11.



John D. Siebenthaler, Dayton, O., left, president of the American Association of Nurserymen, presents a "Plant America" industrial landscaping award to John W. Dunn, representing Bell Aircraft Corp., Buffalo, N. Y. This presentation took place at the 1954 convention of eastern nurserymen. A section of Bell's attractively landscaped building appears in the picture at extreme right.



In the picture directly at left, Franklin K. Wilcox (left), Keeline-Wilcox Nurseries, Montebello, Calif., and Philip S. Fogg (center), Consolidated Engineering Corp., Pasadena, Calif., receive "Plant America" industrial landscaping awards. Keeline-Wilcox Nurseries did the landscape work for Consolidated Engineering Corp. Clyde Stocking, San Jose, Calif., director of the American Association of Nurserymen for region 6, makes the presentations. The building itself is shown at the far left.



The photo at right shows again what landscaping can do for an industrial building. This is the factory of Shipping Containers, Ltd., Montreal, Que., Canada. The picture directly above shows Dr. Richard P. White, executive secretary of the American Association of Nurserymen, presenting a "Plant America" award to L. D. Richardson, right, manager of Shipping Containers, Ltd. Louis Perron, Montreal landscape architect who designed this project, also received an award.



"Plant America" Landscaping Awards

the most significant aspects to date of the "Plant America" program of the American Association of Nurserymen and potentially one of the most useful in the industry was the industrial landscaping competition sponsored the past year by the association. It attracted entries from many of the leading industrial firms. In this issue, the American Association of Nurserymen presents a comprehensive review of the competition, with a number of pictures of award-winning industrial landscaping projects and of representative nurserymen and industrialists who received awards. On page 8 is a special article by Howard Land on the field of industrial landscaping. Additional pictures will be found on pages 10 and 11.





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INDUSTRIAL LANDSCAPING

[Continued from page 8]

pointment with every industrialist, small and large, in your area, whose factory is not landscaped. Point out what other factories are doing, as shown by the pictures, and the advantages of beautification as set forth above. I will guarantee, if you see the right man, the man in authority, that you will sell enough nursery stock to make it worth while. Try it!

Showroom for Nursery Stock

There is another important phase of this industrial landscaping. It is a *showroom* for nursery stock. Many thousands of employee homeowners walk past it at least twice a day. They see it in all seasons. They cannot help liking it, providing it is well done and is maintained properly (you should have the contract for this, too). A large number of these employees will look and be charmed and want to have some nursery stock themselves. If the industrial firm lets you do it, at least during the landscape work, put up a sign, "This site being landscaped by John Doe Nursery Co.—home and industrial landscaping. See us for your trees and shrubs." Why not, if the company will let you do it? There is no harm in asking. Construction firms do it; why not the beautifier of the property?

In all this "Plant America" promotion, we are trying, within the limits of our budget, to promote all phases of planting and the sale of plants—to factories, homes, churches, schools, communities and highways. Each market can be developed to the point where it is a mark of distinction, as well as a provider of comfort and beauty, to have a building, *any building*, beautifully planted.

Sometime in the years ahead, as we continue to promote "Plant America," this goal will be within reach, and the nursery industry then will come into its own. And, at the same time, America will be a better place in which to live and work and play.

THE LITTLE MOUNTAIN VIEW NURSERY

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MENTOR, O.

	Per 100
Azalea Mollis, 3-yr., TT., L. O. stock	\$10.00
4 to 6 ins.	15.00
6 to 8 ins.	20.00
8 to 10 ins., bushy	25.00
10 to 12 ins., bushy	30.00
Buxus Sempervirens, R. C., 2 to 4 ins.	7.50
Buxus Sempervirens, R. C., 4 to 6 ins.	10.00
Taxus Browni, R. C., from greenhouse	10.00
Taxus Cuspidata, R. C., from frame	10.00
2-yr., in open field beds	25.00
extra heavy	35.00
Taxus Hicksi, R. C., from frame	11.00
2-yr., in open field beds	30.00
extra heavy	40.00
Taxus Intermedia, R. C., from greenhouse	8.00
Thuja Globosa, R. C., from greenhouse	10.00
Thuja Globosa, 1-yr., field beds	15.00

Terms: Cash with order earns free packing or one fourth with order. Balance before shipping or C.O.D. See our classified ad in this issue.

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**FLOWERING CRABS
ORNAMENTAL TREES
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Fruit Trees and Berries

Complete Selection
of Fine Roses

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PERENNIALS

2-year Transplanted Stock
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Chrysanthemums

2½-in. pots

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OF HARDY STOCK
FOR THE NORTHWEST**

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Stillwater, Minn.

NORTHERN-GROWN STOCK

Evergreen Liners
Bleeding Hearts
Ornamental Shrubs
Fruit Trees
French Lilacs

Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

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ST. PAUL 6, MINNESOTA

FRENCH PUSSY WILLOW

(Salix Discolor Selection)

Beautiful February-flowering strain. Catkin sheath is a rich mahogany-red with attractive, large silvery-pink catkins when mature.

24 to 30 ins., \$4.00 per 10, \$35.00 per 100.

15 to 18 ins., \$25.00 per 100; \$200.00 per 1000.

BEARDSLEE NURSERY — PERRY, OHIO

WOODY PLANT KILLERS

Unwanted trees or brush in pastures, fence rows or forests can be easily controlled with the proper applications of chemicals, say foresters at the University of Missouri and the United States Department of Agriculture forest service in a new folder, "How to Kill Woody Plants."

Three of the commonest and most effective chemicals for brush control are 2,4,5-T, 2,4-D and Ammate. A careful selection of the chemical to be used will give better results at a lower cost.

An ester form of 2,4,5-T works best for general use on mixed species of brush.

On pure or mixed stands of black locust, box elder, buckbrush, cottonwood, hawthorn, sassafras, sumac and willow, an ester form of 2,4-D works well in general use. With the exception of buckbrush, these plants can be controlled as well with 2,4,5-T, but 2,4-D is cheaper.

Ammate works best on such hard to kill trees as ash, elm, hackberry and maple, and the chemical is effective in frill and stump treatment on all trees and may be substituted for 2,4,5-T or 2,4-D, if desired. However, Ammate is generally more expensive than either of the other two and is hard on metal sprayer parts.

Methods of application for particular plants and problems are recommended in the new folder. Copies of the folder may be obtained from the Mailing Room, Room 21, Mumford Hall, Columbia, Mo.

CORNELL HANDBOOK

Prepared for dealers in various garden needs, for county agricultural agents and for others from whom homeowners seek advice on their trees, shrubs and turf, the New York college of agriculture, at Cornell University, Ithaca, has issued an exceedingly helpful booklet of 40 pages and paper cover, 8½x11 inches, entitled "1954 Recommendations for Trees, Shrubs and Turf."

Text and tables on sprays, insect control and disease control of trees and shrubs and fertilization of shade trees occupy 24 pages, while 15 pages are devoted to lawn grass problems. A page of references is useful for those desiring more detailed data.

Members of the college staff have contributed the text and tables, according to their various specialties, so that this booklet represents the last word, in brief, from authorities on the subject.

EVERGREENS

CONIFERS

Baker Arborvitae
Berckmans Arborvitae
Bonita Arborvitae
Excelsa Arborvitae
Newark Arborvitae
American Arborvitae (Sheared)
American Pyramidal Arborvitae
American Globe Arborvitae
Cedrus Deodara
Juniper, Irish
Juniperus Andorra

Juniperus Excelsa Stricta
Juniperus Fastigiata
Juniperus Pfitzeriana
Juniperus Pfitzeriana Compacta
Juniperus Pfitzeriana Nana
Juniperus Sabina von Ehron
Juniperus Virginiana Canaerti
Juniperus Virginiana Dundee
Juniperus Virginiana Glauca
Pinus Nigra

BROAD-LEAVED

Elaeagnus
Euonymus Patens
Ilex Opaca East Palatka

Ilex Vomitoria
Nandina Domestica
Photinia Serrulata

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Etoile de Hollande, red
Frau Karl Druschki, white
Kaiserin Auguste Viktoria, white
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Pink Radiance

Red Radiance
Soeur Therese, yellow
Talisman, two-tone
Climbers
Red Blaze, red
Paul's Scarlet, red
Cl. Talisman, two-tone
Cl. American Beauty, pink
Cl. Radiance, red
Cl. Etoile de Hollande

Prices:	Per 100	Per 1000
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Heavy, No. 1½	40.00	350.00

250 assorted plants at 1000 rate.

Boxing and packing at cost. Terms cash or satisfactory references. Write or wire your order; we will hold shipment until you are ready.

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Deciduous Trees
Shrubs and Roses

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Painesville, Ohio

NORTHERN-GROWN STOCK

3-YR. SEEDLINGS		
Scotch Pine, Big	Per 100	Per 1000
8 to 10 ins.	\$ 4.00	\$ 39.00
4 to 8 ins.	3.00	22.50
Black Spruce		
6 to 10 ins.	3.00	25.00
Norway Spruce		
4 to 8 ins.	3.50	30.00
White Spruce		
6 to 8 ins.	3.50	30.00
Black Hills Spruce		
4 to 6 ins.	4.00	30.00
Austrian Pine		
6 to 8 ins.	3.50	30.00
Ponderosa Pine		
6 to 8 ins.	3.00	25.00
Mugho Pine		
4 ins.	4.00	35.00
2-YR. SEEDLINGS		
Colorado Blue Spruce		
2 to 4 ins.	3.00	25.00
Black Hills Spruce		
2 to 4 ins.	3.00	25.00
Black Spruce		
4 to 6 ins.	2.50	20.00
Mugho Pine, Dwarf		
2 to 4 ins.	3.00	25.00
Scotch Pine		
2 to 4 ins.	2.00	15.00
Ponderosa Pine		
2 to 4 ins.	2.50	20.00
Austrian Pine		
2 to 4 ins.	2.50	20.00
American Arborvitae		
3 to 5 ins.	3.00	20.00
White Spruce		
4 to 6 ins.	3.00	25.00
2 to 4 ins.	2.50	18.00
4-YR. TRANSPLANTS		
Norway Spruce		
12 to 15 ins.	15.00	140.00
10 to 12 ins.	12.00	100.00
Juniperus Communis		
4 to 6 ins.	12.00	
Write for prices on 5000 or over.		
Our Grades and Packing the Best.		
J. R. PALMER & SON BLACKDUCK, MINN.		

CORNUS FLORIDA(White-flowering Dogwood,
Standard)

3 to 4 ft., B&B.	\$2.50
4 to 5 ft., B&B.	3.00
5 to 6 ft., B&B.	3.50
6 to 7 ft., B&B.	4.50
7 to 8 ft., B&B.	6.50
8 to 9 ft., B&B.	7.50
For multiple trunks, add 10%.	

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4 to 5 ft., B.R.	.40
5 to 6 ft., B.R.	.50

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TAXUS — JUNIPERS — THUJAS
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RATKE — TRANSPLANTS AND
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SURVEYS INSECT PESTS

Dr. Ernest N. Cory, state entomologist of Maryland, announces the transfer of Wallace C. Harding, Jr., instructor, department of entomology, University of Maryland, to survey work on the insects of Maryland. He will obtain data on the abundance of important insect pests throughout the year in order to aid the extension and research entomologists in determining immediate and long-range needs of the citizens of the state in meeting their insect problems. This survey work is in cooperation with the economic insect survey section, plant pest control branch, United States Department of Agriculture.

Mr. Harding has been engaged in the processing and distribution of spore dust in the Japanese beetle retardation program under the direction of Dr. George S. Langford, specialist in insect control. James R. Foster, recently returned from service with the armed forces in Korea, will take over the spore dust work.

Mr. Harding in his new capacity will contact county agents to learn the problems in their counties. He will search for insects in all areas of the state. His findings will be returned to state headquarters for analysis and release through the extension entomologist, T. L. Bissell, who will be responsible for specific recommendations on control.

PEACHES FOR NEW JERSEY

Two new varieties of peaches, Sunrise and Blake, have been released by the New Jersey agricultural experiment station in cooperation with the New Jersey peach council.

Sunrise is a yellow-fleshed, open-pollinated seedling of Hale and an unnamed variety, 41SD. It ripens about two weeks before Jerseyland or just before Early East. The fruit of Sunrise is of good size, although it may tend to be small when not thinned properly. It is three-quarters to fully covered with red but does not become dark. It is an oval-shaped, semiclingstone peach, with flesh that is only moderately firm.

Sunrise crops better than Early East and does not develop so many split pits. Its dormant fruit buds are as hard as those of Golden Jubilee.

Blake is named in honor of the late Prof. M. A. Blake. It is a yellow-fleshed, fully freestone seedling of J. H. Hale and Primrose, ripening a week before Elberta. The fruit of Blake is large and round. It has short pubescence and is three-quarters covered with an attractive red over

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In Plant Bands for Field Planting.

6 to 8 ins.	14½c
8 to 10 ins.	20c
10 to 12 ins.	26c

Field-grown, Bare-root Transplants:
Branched and Trimmed.

8 to 11 ins.	40c
11 to 14 ins.	55c

All prices are at 1000 rate, 300 or more. If total order is less than 300, prices are 2c more on each plant.

See our classified ads for other banded evergreen and shrub liners and dormant bare-root shrub liners.

Book your order for spring.

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We offer only the Peter Lui strain of Chinese Chestnut trees which produced the Nanking, Meiling and Kuling varieties. We give you the advantage in price of our long growing season and cheap labor in addition to the proven quality of our trees. Your inquiries are invited.

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specialties.

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Shrubs in Storage for Immediate Shipment. All 2-yr., field-grown stock.

FLOWERING SHRUBS

	Each Per 10	Each Per 100
Almond, Pink-flowering,		
own root		
2000 L.O.	\$0.12	\$0.10
12,110 12 to 18 ins., br. ....	.17½	.15
2150 18 to 24 ins., br. ....	.25	.22½
Althaea Anemoneaeflora		
125 6 to 12 ins., L.O. ....	.04	.03½
406 12 to 18 ins., L.O. ....	.05	.04
85 18 to 24 ins., L.O. ....	.06	.05
1200 12 to 18 ins., br. ....	.15	.10
Althaea Boule de Feu		
75 6 to 12 ins., L.O. ....	.04	.03½
150 12 to 18 ins., L.O. ....	.05	.04
100 18 to 24 ins., L.O. ....	.06	.05
175 12 to 18 ins., br. ....	.15	.10
Althaea Coelestis, grafted		
325 12 to 18 ins., br. ....	.20	.15
39 18 to 24 ins., br. ....	.25	.20
Althaea Jeanne d'Arc		
14 12 to 18 ins., L.O. ....	.05	.04
50 18 to 24 ins., L.O. ....	.06	.05
154 12 to 18 ins., br. ....	.15	.10
Althaea Lucy		
425 12 to 18 ins., br. ....	.15	.10
Althaea Paeoniflora		
75 18 to 24 ins., L.O. ....	.06	.05
400 12 to 18 ins., br. ....	.15	.10
Althaea Purpurea Semiplena		
25 18 to 24 ins., br. ....	.20	.15
Althaea Rubis		
100 18 to 24 ins., L.O. ....	.06	.05
100 12 to 18 ins., br. ....	.15	.10
20 2 to 3 ft., br. ....	.25	.20
80 3 to 4 ft., br. ....	.30	.25
Althaea Arden, Tree form		
55 2 to 3 ft., L.O. ....	.20	.15
Althaea Jeanne d'Arc, Tree form		
79 2 to 3 ft., L.O. ....	.20	.15
Althaea Lucy, Tree form		
345 2 to 3 ft., L.O. ....	.20	.15
Beauty-berry		
(Callierpa Americana)		
40 12 to 18 ins., L.O. ....	.05	.04
50 18 to 24 ins., L.O. ....	.06	.05
190 12 to 18 ins., br. ....	.15	.10
316 18 to 24 ins., br. ....	.20	.15
Buddleia Pink Charming		
125 L.O. ....	.06	.05
Deutzia Pride of Rochester		
675 12 to 18 ins., br. ....	.15	.10
330 18 to 24 ins., br. ....	.20	.15
Deutzia Rosea		
608 12 to 18 ins., br. ....	.15	.10
300 18 to 24 ins., br. ....	.20	.15
Forsythia Fortunei		
225 18 to 24 ins., L.O. ....	.06	.05
100 12 to 18 ins., 2 br. ....	.10	.07½
395 12 to 18 ins., br. ....	.15	.10
Forsythia Spectabilis		
260 12 to 18 ins., br. ....	.15	.10
Honeysuckle, Fragrantissima		
150 12 to 18 ins., 2 br. ....	.12	.10
520 12 to 18 ins., br. ....	.15	.12
150 18 to 24 ins., 2 br. ....	.13	.12
360 18 to 24 ins., br. ....	.22½	.17½

FLOWERING SHRUBS—Continued

	Each Per 10	Each Per 100
Honeysuckle, Morrow		
25 6 to 12 ins., L.O.	\$0.04	\$0.03½
100 12 to 18 ins., L.O. ....	.05	.04
350 18 to 24 ins., L.O. ....	.06	.05
225 12 to 18 ins., 2 br. ....	.10	.07½
575 18 to 24 ins., 2 br. ....	.12	.10
1340 18 to 24 ins., br. ....	.20	.15
3900 2 to 3 ft., br. ....	.25	.20
210 3 to 4 ft., br. ....	.30	.25
Honeysuckle, Zabel		
25 12 to 18 ins., 2 br. ....	.10	.07½
325 12 to 18 ins., br. ....	.12	.10
Philadelphus Virginalis		
40 6 to 12 ins., L.O. ....	.06	.05
100 12 to 18 ins., L.O. ....	.07	.06
250 18 to 24 ins., L.O. ....	.08	.07
206 12 to 18 ins., br. ....	.25	.20
855 18 to 24 ins., br. ....	.30	.25
503 2 to 3 ft., br. ....	.35	.30
Privet, Regel		
610 12 to 15 ins., br. ....	.15	.10
1395 15 to 18 ins., br. ....	.20	.15
Roses, American Beauty		
17 L.O. ....	.10	.05
50 No. 2 ....	.25	.20
190 No. 1½ ....	.30	.25
788 No. 1 ....	.30	.25
Roses, Hansa		
810 No. 1½ ....	.30	.25
Roses, Paul's Scarlet		
20 L.O. ....	.10	.05
80 No. 2 ....	.20	.15
210 No. 1½ ....	.25	.20
1059 No. 1 ....	.30	.25
Spiraea Anthony Waterer		
165 12 to 15 ins., br. ....	.25	.20
145 18 to 24 ins., br. ....	.35	.30
161 24 to 30 ins., br. ....	.40	.35
Spiraea Froebeli		
25 L.O. ....	.10	.05
20 9 to 12 ins., br. ....	.20	.15
32 12 to 15 ins., br. ....	.25	.20
Spiraea Opulifolia Aurea		
40 12 to 18 ins., 2 br. ....	.10	.07½
88 18 to 24 ins., 2 br. ....	.15	.10
825 12 to 18 ins., br. ....	.15	.10
29 18 to 24 ins., br. ....	.20	.15
50 2 to 3 ft., 2 br. ....	.17	.12
Spiraea Vanhouttei		
325 12 to 18 ins., br. ....	.10	.06
22,405 18 to 24 ins., br. ....	.15	.10
11,948 2 to 3 ft., br. ....	.20	.15

TREES

	Each Per 10	Each Per 100
Willow, Niobe		
389 18 to 24 ins., 2-yr.	\$0.20	\$0.15
1040 2 to 3 ft., 2-yr. ....	.25	.20
565 3 to 4 ft., 2-yr. ....	.40	.30
Willow, Thurlow		
25 L.O., 2-yr. ....	.05	.04
145 2 to 3 ft., 2-yr. ....	.25	.20
53 3 to 4 ft., 2-yr. ....	.40	.30

EVERGREENS

	Each
Arborvitae, Baker	
24 to 30 ins., B&B.	\$1.10
30 to 36 ins., B&B.	1.35
3 to 4 ft., B&B.	1.60
4 to 5 ft., B&B.	2.00
Arborvitae, Berckmans	
18 to 24 ins., B&B.	1.35
Arborvitae, Excelsa	
30 to 36 ins., B&B.	1.35
3 to 4 ft., B&B.	1.60
Arborvitae, Oriental (Chinese)	
2 to 3 ft., B&B.	1.25
Arborvitae, Pyramidal	
2 to 3 ft., B&B.	1.75
Cedrus Deodara	
2 to 3 ft., B&B.	2.00
3 to 4 ft., B&B.	2.50
4 to 5 ft., B&B.	3.50
Juniper, Ashford	
30 to 36 ins., B&B.	1.25
Juniper, Excelsa Stricta (Greek)	
18 to 24 ins., B&B.	1.35
Juniper, Fastigiata	
24 to 30 ins., B&B.	1.00
30 to 36 ins., B&B.	1.25
3 to 4 ft., B&B.	1.50
Juniper, Irish	
24 to 30 ins., B&B.	1.00
30 to 36 ins., B&B.	1.25
3 to 4 ft., B&B.	1.50
4 to 5 ft., B&B.	2.00
Juniper, Pfitzer	
15 to 18 ins., B&B.	1.50
18 to 24 ins., B&B.	1.75
24 to 30 ins., B&B.	2.25

BROAD-LEAVED EVERGREENS

	Each
Abelia Grandiflora	
2 to 3 ft., B&B.	\$1.00
Buxus Koreana	
12 to 15 ins., B&B.	1.50
Buxus Sempervirens	
12 to 15 ins., B&B.	1.50
Euonymus Japonica	
18 to 24 ins., B&B.	1.25
Euonymus Patens	
15 to 18 ins., B&B.	1.00
18 to 24 ins., B&B.	1.25
24 to 30 ins., B&B.	1.50
Jasminum—Floridum, Nudiflorum,	
Humile	
2 to 3 ft., B&B.	1.50
3 to 4 ft., B&B.	1.75
Pyraeantha Lalandi, orange berries	
24 to 30 ins., B&B, 1-yr.	1.25
Photinia Serrulata	
18 to 24 ins., B&B.	1.25
24 to 30 ins., B&B.	1.50
30 to 36 ins., B&B.	1.75

All 18 to 24 ins. and smaller grades tied 25 per bundle. All larger grades tied 10 per bundle. No bundles broken. Minimum baling charge 50c. Cash with order unless credit established with us. Quotations gladly submitted on large quantities.

MORNING STAR NURSERYOn U. S. Highway 45-W, 60 miles south of Cairo, Ill.
RIVES, TENN.

bright yellow. The fruit hangs well and stays firm for several days after the ground color has turned bright yellow. The flesh of Blake is firm and makes an attractive frozen product, the bright yellow flesh contrasting with the bright red around the pit cavity, even after freezing. Its quality, however, is only average, being similar to J. H. Hale in this respect. Occasionally it has also had a few split pits and some surface cracks.

The tree of Blake is medium-size, vigorous and productive. Its dormant fruit buds are as hardy as or somewhat harder than those of Elberta. The flowers are medium-size, not showy and produce viable pollen.

Both Sunrise and Blake are resistant to bacterial leaf spot.

**MALLOW HIBISCUS, HEMEROCALLIS, ALTHAEA, LIRIOPE, PERENNIALS AND NEW AND UNUSUAL SHRUBS**

The Finest of Plants Only

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(Pink-flowering Dogwood)

	10 Rate	100 Rate
	Each	Each
12 to 18 ins., B.R.	\$1.00	\$0.75
18 to 24 ins., B.R.	1.25	1.00

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Hoskins A. Shadow

WINCHESTER, TENN.

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Net prices on some coniferous evergreens, in quantity lots — truck or car load; not less than 25 of a kind and size at one digging.

ARBORVITAE (Thuja) Each

American
2 1/2 to 3 ft. \$1.50
3 to 3 1/2 ft. 1.75

Dark American
2 1/2 to 3 ft. 1.75
3 to 3 1/2 ft. 2.00

Globe, Woodward
21 to 24 ins., spread. 1.50
24 to 27 ins., spread. 1.75

Globe, Hovey
1 1/2 to 2 ft. 1.35
2 to 2 1/2 ft. 1.50

Pyramidal
2 1/2 to 3 ft. 1.50
3 to 3 1/2 ft. 1.75
3 1/2 to 4 ft. 2.00

Biota, Chinese Arborvitae
15 to 18 ins. 1.10
1 1/2 to 2 ft. 1.25
2 to 2 1/2 ft. 1.50

JUNIPER, Upright

Ashford, 2 1/2 to 3 ft. 1.75

English
3 to 3 1/2 ft. 1.75
3 1/2 to 4 ft. 2.00
4 to 4 1/2 ft. 2.25

Irish
2 to 2 1/2 ft. 1.60
2 1/2 to 3 ft. 1.75

3 to 3 1/2 ft. 2.00
Spiny Greek, 3 to 4 ft. 3.00

JUNIPER, Spread

Pfitzer
1 1/2 to 2 ft. 1.60
2 to 2 1/2 ft. 2.00
2 1/2 to 3 ft. 2.50
3 to 4 ft. 3.00

Compact Pfitzer
2 to 2 1/2 ft. 2.50
2 1/2 to 3 ft. 3.00
3 to 3 1/2 ft. 3.75

HEMLOCK

Canadian, 2 to 2 1/2 ft. 2.50

BROAD-LEAVED EVERGREENS

Quoted on request.

Abelia	Ligustrum
Buxus	Magnolia
Camellia	Nandina
Elaeagnus	Osmanthus
Euonymus	Pyracantha
Ilex	Viburnum

Please submit a list of about 500 for delivered prices.

LINDLEY NURSERIES, Inc.

P.O. Drawer H,
GREENSBORO, N. C.

Building Your Sales

By C. O. Smith

Today the door to increased retail sales has been opened. New products and new ideas have aided the sales-minded nurseryman. More leisure time has turned an increasing number of Americans into gardeners. The progressive nurseryman has had no better time to cash in on a bonanza.

Whether each nurseryman takes advantage of his opportunities will depend on how well he uses the new tools. Unless he places his goods before the public, he will not be able to benefit from the gold rush.

Compact organization of his salesyard is one of the best ways to please a customer. The customer who evaluates a stock of junipers set side by side is better able to choose than the customer who must travel all over the lot past scattered conifers and broad-leaved plants trying to find what he wants.

Few customers are able to remember the good and bad points of a series of flowering shrubs unless they are arranged for him to see conveniently. The customer who decides he must think it over and come back may be one who does not want to buy. On the other hand, he may be one who is so badly confused by a poor display of the stock that he does not know what to buy.

Easy to Classify Stock

Today it is easier than it has ever been before to classify stock and place it conveniently. Container-grown stock makes the nursery business almost a year-around affair. A good selection of stock should be kept on hand at all times. There are not the losses from container-grown stock that there were from balled and burlapped stock, and therefore more time can be put into arrangement.

Every nurseryman knows that stock should be heeled in and taken care of immediately on arrival. This is good business not only because it preserves the life of the plant, but also because it means that customers will never be taken into a shaggy-looking lot. Certainly any bad-looking plants should be removed immediately. It is unfortunate when bad

Adapted from an address, "Increasing Your Retail Sales," by C. O. Smith, Sr., C. O. Smith Landscape Nursery, Wichita Falls, Tex., presented at an annual meeting of the Oklahoma State Nurserymen's Association.

FLOWERING SHRUBS

	Per 100	Per 1000
Hydrangea paniculata Grandiflora (Peegee Hydrangea)		
4 to 6 ins., 1-yr., C.	\$ 5.00	\$ 40.00
6 to 12 ins., 1-yr., C.	6.00	55.00
12 to 18 ins., 1-yr., C.	8.00	75.00
12 to 18 ins., 2-yr., well-br.	9.50	90.00
18 to 24 ins., 2-yr., well-br.	20.00	150.00
2 to 3 ft., 2-yr., well-br.	25.00	....

	Per 10	Per 100
Spiraea Vanhouttei (Van Houtte Spiraea)		
6 to 12 ins., 1-yr., C.	3.50	30.00
12 to 18 ins., 1-yr., C.	4.50	40.00
12 to 18 ins., hedging.	6.00	55.00
18 to 24 ins., 2-yr., well-br.	16.00	150.00

	Per 10	Per 100
Cornus Florida (White-flowering Dogwood)		
3 to 4 ft., 2-yr., well-br.	\$ 6.50	\$ 60.00
4 to 5 ft., 3-yr., well-br.	11.00	100.00

	Per 10	Per 100
Tilia Americana (American Linden)		
2 to 3 ft., 3-yr., well-br.	3.00	25.00
3 to 4 ft., 3-yr., well-br.	4.00	35.00
4 to 5 ft., 3-yr., well-br.	6.00	50.00
5 to 6 ft., 3-yr., well-br.	8.00	75.00

NATIVE EVERGREENS

Collected Stock

	Per 100	Per 1000
Rhododendron Maximum, Kalmia latifolia, Ilex Opaca, Tsuga Canadensis		
3 to 6 ins., S.	\$2.50	\$20.00
6 to 9 ins., S.	3.50	30.00
9 to 12 ins., S.	5.50	50.00
12 to 18 ins., S.	7.00	65.00

	Per 10	Per 100
Acer Rubrum (Red Maple) Acer Saccharum (Sugar Maple)		
4 to 5 ft., well-br.	\$ 4.50	\$ 40.00
5 to 6 ft., well-br.	6.00	55.00
6 to 8 ft., well-br.	7.50	65.00
8 to 10 ft., well-br.	12.00	90.00
10 to 12 ft., well-br.	15.00	125.00

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AWARD WINNING ROSES

AARS Winners and 150 other popular varieties. In attractive, colorful packages or bare root.



PECAN TREES

Beautiful shade, productive too! Prolific varieties. Sizes 18 in. to 12 ft. In attractive packages or bare root. Get stock list and prices.

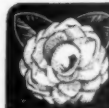
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Broad-leaved Evergreens and a general line of quality ornamentals.

THE TANKARD NURSERIES
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AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

**INSURE THE STANDS
IN YOUR NURSERY ROWS BY
PLANTING OUR CHOICE POTTED
LINING-OUT STOCK**

Well-established in Dowfume MC-2
Sterilized Soil.

At right:

Top row — *Biota Aurea Nana Berckmans*

Bottom row — *Juniperus Pfitzeriana*



Please refer to our classified ads under the
headings of Evergreens and Lining-Out Stock
in this issue.

At left:

Top row — *Ilex Convexa Bullata*

Bottom row — *Ilex Cornuta Burfordi*

T. G. OWEN & SON, INC.
COLUMBUS MISS.

stock is the first thing a customer sees.

One of the best sales aids that have been offered to nurserymen in recent years is the visual aids. Plastic pictures in color of almost all plants in full bloom are available. When they are mounted in the bin with the variety displayed, they are silent salesmen while the customer waits for the nurseryman's attention.

These pictures are most effective when displayed well. Opaque pictures should be well lighted. The transparent pictures can be mounted with lights behind them in such a way as to give an almost 3-dimensional effect.

Tags on merchandise have been a controversial question in sales. It has been the habit of many nurserymen to size up the customer's pocketbook before giving the price. For the hit-and-run roadside nurseryman, this may prove satisfactory. He does not plan to stay in the community on a permanent basis. When buyers compare prices later on, he will be long gone from the community. Good will means nothing to him. But for a nurseryman with a permanent location in the community, the practice is a short-sighted one.

Another advantage of the tags is



IT'S LATER THAN YOU THINK!

3 per cent discount and free packing
if cash accompanies the order.

	Each
250 Hardy Northern Pecan, 2 to 3 ft.....	\$0.75
250 Hardy Northern Pecan, 3 to 4 ft.....	1.00
500 Newport Improved Purpleleaf Plum, 2 to 3 ft.....	.25
500 3 to 4 ft.....	.35
250 4 to 5 ft.....	.50
500 Double Red-flowering Peach, 2 to 3 ft.....	.25
250 Double White-flowering Peach, 2 to 3 ft.....	.25
	Per 1000
10,000 Norway Maple, seedlings, 6 to 12 ins.....	\$40.00
5000 True Pin Oak, seedlings, 6 to 12 ins.....	90.00

Write for new, descriptive wholesale catalog.

BOYD NURSERY CO.

McMINNVILLE, TENN.

Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

COMMERCIAL **Nursery Co.**
ESTABLISHED 1900
Decherd, Tennessee

NEW AND OUTSTANDING RED RASPBERRIES

Available first time in quantity lots.

SEPTEMBER (Fall-bearing variety)			
Transplants	10	100	1000
1-Yr. No. 1	\$3.00	\$20.00	\$150.00
	2.00	15.00	100.00
EARLIERED (Very early one-crop variety)			
Transplants	3.00	20.00	150.00
1-Yr. No. 1	2.00	15.00	100.00

Here are two new and outstanding Red Raspberries that have recently been introduced; the September by Geneva, New York and the Earliered by South Haven, Michigan. Both have been tested over a period of years and have proven to be outstanding in their class.

The September ripens approximately a month earlier than the Indian Summer, producing a much firmer berry, large in size and light in color. A very vigorous grower which also produces an early summer crop.

The Earliered is outstanding for its earliness. It ripens a week to ten days ahead of Latham—captures the market at peak prices. Large, well-formed, light-colored fruit. A variety which has proven itself outstanding for an early Red Raspberry.

GIVE THEM A TRIAL—THEY HAVE SALES APPEAL. SOMETHING NEW, SOMETHING GOOD.

KRIEGER'S WHOLESALE NURSERY

Phone 22

BRIDGMAN, MICH.

LINER LIST

AVAILABLE NOW

All stock in 2 1/4-in. pots except where otherwise noted. All prices quoted F.O.B. our nursery. Packing at cost, extra.

	Per 100
<i>Abelia Grandiflora</i>	\$10.00
<i>Buxus Chinensis</i>	10.00
(Chinese Boxwood)	
<i>Camellia Sasanqua</i> Mine-No-Yuki	15.00
3-in. pots	
<i>Ficus Repens</i> (Fig Vine)	15.00
<i>Gardenia Mystery</i> , heavy	15.00
3-in. pots	
<i>Gardenia Radicans</i>	10.00
<i>Hedera Helix</i> (English Ivy), heavy	15.00
<i>Ilex Cornuta</i>	17.50
<i>Ilex Cornuta Burfordi</i>	17.50
<i>Ilex Cornuta Special</i>	15.00
<i>Ilex Crenata Convexa</i> (Bullata)	15.00
<i>Ilex Crenata Microphylla</i>	15.00
<i>Ilex Crenata Rotundifolia</i>	15.00
<i>Ilex East Palatka</i>	15.00
<i>Ilex Opaca</i>	20.00
<i>Ilex Vomitoria</i>	20.00
<i>Lasium Primulinum</i> , 3-in. pots	10.00
<i>Ligustrum Lucidum</i>	
(Waxleaf Privet)	10.00
<i>Loquat</i> (<i>Eriobotrya Japonica</i>)	17.50
<i>Magnolia Fuscata</i> (Banana Shrub)	15.00
<i>Osmanthus Aquifolium</i> , 2 1/2-in. pots	17.50
<i>Photinia Glabra</i>	17.50
<i>Photinia Serrulata</i> , 2 1/2-in. pots	17.50
<i>Pittosporum Tobira</i>	15.00
<i>Pyracantha Formosana</i> , 2 1/2-in. pots	17.50
<i>Viburnum Odoratissimum</i> , 3-in. pots	17.50
<i>Viburnum Tinus</i> , 2 1/2-in. pots	15.00

Packing at Cost

CAROLINA FLORAL NURSERY

Rt. 9, Box 95
CHARLESTON HEIGHTS, S. C.

STRAWBERRY PLANTS

Blakemore, Premier, Sparkle, Fairland, Robinson, Temple and all other standard varieties. Can ship direct to you or your customers at no extra cost.

H. D. RICHARDSON & CO.

Box 22 WILLARDS, MD.

LINING-OUT STOCK

	Per 100
<i>Buxus sempervirens</i> , 6 to 8 ins., T.	\$25.00
<i>Buxus sempervirens</i> , 8 to 10 ins.	40.00
<i>Buxus suffruticosa</i> , 4 to 6 ins., T.	25.00
<i>Buxus suffruticosa</i> , 6 to 8 ins., T.	40.00
<i>Cedrus deodara</i> , 4 to 6 ins.	20.00
<i>Cedrus deodara</i> , 6 to 8 ins.	25.00
<i>Chestnut, Chinese</i> , 6 to 12 ins.	20.00
<i>Chestnut, Chinese</i> , 12 to 18 ins.	30.00
<i>Elm, Chinese</i> , 2 to 3 ft., S.	4.50
<i>Elm, Chinese</i> , 3 to 4 ft., S.	6.50
<i>Ilex rotundifolia</i> , 8 to 12 ins., T.	35.00
<i>Maple, Silver</i> , 2 to 3 ft., S.	4.50
3 to 4 ft., S.	6.50
4 to 5 ft., S.	10.00
<i>Mimosa</i> , 6 to 12 ins.	3.50
<i>Taxus hicksi</i> , 8 to 12 ins., T.	30.00

Willow, Weeping
(*Salix babylonica*), 18 to 24 ins. 6.00
Willow, Weeping
(*Salix babylonica*), 2 to 3 ft. 10.00
WAYNESBORO NURSERIES
WAYNESBORO, VIRGINIA

WE OFFER . . .

Our General Line of

SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES

Bridgman, Michigan

CERTIFIED BLUEBERRY PLANTS

	Per 100	Per 1000
1-yr., rooted cuttings	\$ 8.00	\$ 70.00
6 to 12-in. plants	15.00	135.00
F.O.B.	15 Varieties	

A. G. AMMON

Box 14 CHATSWORTH, N. J.

in dealing with a bargain hunting customer for whom price is the only consideration. This sort of customer, who buys cheap now and complains loudly later, will be able to inspect the tags and depart without taking the time of the salesman who may be dealing with a steady customer.

Customer demand in the past few years has increased more and more the nurseryman's handling of related products: Fertilizers, insecticides, garden tools and seeds. These are part of the nursery trade. Only a few of America's gardeners are willing to search through three or four stores if they can buy everything in one place. This may explain why department stores and dime stores have been able to go successfully into the plant business.

Other Items of Importance

Among the general things relating to sales are more and stricter state inspections and better public relations. There is little doubt that strict state inspection harms only the shady operators. Those who bring bare-root products into a community and sell them after three or four days to the general public harm the entire nursery industry.

Better public relations often means no more than the practice of courtesy and politeness. Interest in the customer and what he wants, not what the nurseryman wants to sell, is what brings the customer back. Readiness to make right anything that is wrong is what wins the long-time confidence of the public.

Today, with housing developments springing up all over the country, the public wants and needs more planting. Today with more leisure time, the public has the time to spend on gardens. But the nurserymen should remember that this is an age of speed. Supermarkets and superdrugstores have received tremendous response because their goods are quickly found, well displayed, easily compared and plainly priced. The nurseryman who wishes to increase his sales could do worse than to take a page from their book.

NEW BLACK SWEET CHERRY

The Summerland, B. C., Canada, experimental station has recently introduced a new, promising black sweet cherry. This variety, which has been named Sam, possesses high quality, firmness and productiveness.

The original tree of Sam is large, vigorous and healthy, and it shows

ROSEBUSHES

PRICE AND QUALITY MAKE THIS YOUR BEST ROSE BUY.

May be shipped now or later.

RED

Poinsettia
Red Radiance
Etoile de Hollande
Syracuse
Rouge Mallerin
Christopher Stone
Grenoble
Ami Quinard
E. G. Hill
Charles K. Douglas
McGredy's Scarlet
Red American Beauty
Night
Crimson King

TWO-TONE

Talisman
Edith Nellie Perkins
Condesa de Sastago

WHITE

White American Beauty
F. K. Druschki
Caledonia
Konigin Luise
Kaiserin Auguste Viktoria

PINK

Editor McFarland
Briarcliff
Columbia
Pink Radiance
Mrs. Charles Bell
Betty Uprichard
Shell-Pink Radiance
Paul Neyron
The Doctor
Picture
Contrast

POLYANTHAS AND FLORIBUNDAS

Baby Chateau
Floradora
Golden Salmon
Ideal
Kirsten Poulsen
Mrs. R. M. Finch
Red Lafayette
Red Ripples

YELLOW

Yellow Talisman
Numa Fay
Golden Charm
McGredy's Yellow
Golden Dawn
Golden Ophelia

YELLOW, cont.

Mrs. P. S. du Pont
Soeur Therese
Improved du Pont
Luxembourg
Betty Grace Clark
Golden Sastago

CLIMBERS

Red American Beauty
Blaze
Etoile de Hollande
Paul's Scarlet
Red Talisman
Rouge Mallerin
Red Radiance
Pink Radiance
Golden Charm
Mrs. P. S. du Pont
Marechal Niel
Caledonia
Talisman
Cecile Brunner

1954 PRICES, BARE-ROOT:

	100	1000
No. 1	38c ea.	35c ea.
No. 1 1/2	30c ea.	28c ea.
No. 2	24c ea.	22c ea.

PREPACKAGED: Individually wrapped. Paraffin-dipped. Picture tag, 10c extra per bush; collection of 3, add 9c per bush; collection of 5, add 8c per bush. All prices F.O.B. Arp, Tex. NO CHARGE FOR BOXING.

Please order in multiples of 10 as we do not break bundles.

Write for the Better Patented Varieties and Prices.

MARTIN'S ROSE NURSERY

P. O. Box 155

Telephone: 713

ARP, TEXAS

a strong and desirable framework. During the moderately severe winter of 1942-43, Sam appeared hardy. However, during the winter of 1949-50, the most severe on record, the original tree was injured somewhat. The variety may, therefore, be comparable to Bing in tree-hardiness. In that same winter, Sam appeared to be fairly bud-hardy, possibly being comparable to Lambert. The tree is productive, and the fruit sets well and is well distributed. A heavy June drop is characteristic of the variety; nevertheless Sam produces an abundance of good-size fruit.

Requires Cross-Pollination

Sam is self-sterile and requires cross-pollination. It appears to be interfertile with Bing, Lambert and Van.

The fruit of this variety is black and resembles Deacon in shape. It is as large as Bing or Lambert, firm, of good quality, shows some resistance to cracking and is satisfactory for canning. Its season is about seven to 10 days earlier than that of Bing.

The Sam cherry is promising and is being recommended for limited commercial trial. Budwood is being distributed only to commercial nurseries, and trees should be available from these firms in 1955.



SNEED
NURSERY COMPANY

"The Sign of Quality"

P. O. Box 798 OKLAHOMA CITY, OKLA.

Write for your spring copy today!

THE BUYER'S GUIDE

Stock grown by members of the S. N. A.

SOUTHERN NURSERYMEN'S ASSOCIATION
R. F. D. 9, Box 82 RICHMOND 25, VA.

CHERRY TREES

1200 Montmorency, 7/16-in. caliper, 1-yr.	\$0.50
4500 Montmorency, 5/16-in. caliper, 1-yr. ....	.25
200 Montmorency, XXX, 2-yr., heavy	1.25

C. M. HOBBS & SONS, INC.

BRIDGEPORT, IND.

Phone Indianapolis, Belmont 1812

SMALL FRUITS

All material graded and ready for immediate shipment with the exception of asparagus roots. Order direct from this ad; include postage on small orders.

RED RASPBERRIES

	Per 100	Per 1000
Latham, 1-yr., No. 1....	\$ 7.50	\$ 65.00
Chief, 2-yr., T.....	8.50	75.00
Chief, 1-yr., No. 1.....	7.00	60.00
Sunrise, 2-yr., T.....	8.50	75.00
Sunrise, 1-yr., No. 1....	7.00	60.00
Indian Summer, 2-yr., T..	9.50	85.00
Indian Summer, 1-yr., No. 1.....	8.00	70.00
September, (New), T....	20.00	....
September, 1-yr., No. 1..	15.00	....
Earlired, (New), T.....	20.00	....
Earlired, 1-yr., No. 1....	15.00	....

BLACKBERRIES

Eldorado, 2-yr., T.....	7.50	65.00
1-yr., No. 1.....	5.50	45.00
1-yr., Med.	4.00	30.00
Alfred, 2-yr., T.....	7.50	65.00
1-yr., No. 1.....	5.50	45.00
1-yr., Med.	4.00	30.00

DEWBERRY

Lucretia, 2-yr., T.....	7.50	65.00
Lucretia, No. 1, R.C.....	5.00	40.00

GRAPEVINES

Concord, 2-yr., No. 1....	12.00	100.00
Concord, 1-yr., No. 1....	10.00	80.00
Niagara, 1-yr., No. 1....	11.00	....
Fredonia, 2-yr., No. 1....	13.50	110.00
Catawba, 2-yr., No. 1....	13.50	110.00
Van Buren, 2-yr., No. 1....	18.00	....

We are sold out on many items and others are in too small quantity to list this season.

KRIEGER'S WHOLESALE NURSERY

Phone Bridgman 22

BRIDGMAN, MICH.



Now Available at Wholesale

You can realize handsome profits by stocking LEUTHARDT Espalier Trained Fruit Trees, now being offered to the trade at wholesale discounts.

Planted against a wall or fence, they are practical, decorative, fruitful. A display of these aristocrats of fruit trees will attract the most discriminating clientele to your nursery.

Write for Full Information

HENRY LEUTHARDT
Port Chester • New York

STRAWBERRY AND RASPBERRY PLANTS	
Large, healthy plants, true to name. Grown under irrigation.	
STRAWBERRIES	Per 1000
Gem, overbearing	\$13.00
Superfection, overbearing	15.00
RASPBERRIES	
Latham	40.00
Newburgh	40.00
Write for prices on other varieties.	
MENEAL BERRY NURSERY	
HAMILTON, MONT.	

BOYSENBERRY

	Per 100	Per 1000
Thorny, No. 1, tips.....	\$ 6.00	\$50.00
Thornless, No. 1, tips...	6.00	50.00

PURPLE RASPBERRY

Sodus, No. 1, tips,	6.50	55.00
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ASPARAGUS

Mary Washington, 3-yr., heavy	4.00	30.00
2-yr., No. 1.....	2.50	20.00
1-yr., No. 1.....	2.00	14.00

VICTORIA RHUBARB

3/4 to 1 -in. cal.....	6.00	45.00
1/2 to 3/4-in. cal.....	4.00	30.00

RED RHUBARB

	Per 10	Per 100
Canada Red, No. 1 div...	\$4.00	\$35.00

GOOSEBERRIES

Houghton, 3-yr.	4.00	35.00
Houghton, 2-yr.	3.00	25.00

CURRENTS

Red Lake, 2-yr., No. 1....	1.95	16.00
Wildier, 2-yr., No. 1....	1.45	12.00

BLUEBERRIES

Rancocas, Rubel, Jersey 2-yr., 9 to 12 ins.....	3.50	32.50
3-yr., 12 to 18 ins.....	5.00	47.50
4-yr., 18 to 24 ins.....	7.00	67.50



The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 1233. Azalea plant. Maurits L. V. Van Zanten, Lynden, Wash. A new and distinct variety of azalea plant, characterized particularly by its early-blooming and forcing qualities, its large size, semi-double, 10-petaled flowers of claret-rose color, with darker centers and its compact growth.

No. 1234. Rose plant. Martin R. Jacobus, Ridgefield, N. J., assignor to Bobbink Nurseries, Inc., East Rutherford. A new and distinct variety of rose plant of the hybrid Wichuraiana class, characterized particularly as to novelty by its ever-blooming habit; by the penetrating fragrance of its blooms; by its excellent petal formation and arrangement, with attending perfect opening of its blooms; by the spectrum-red to rose-red general color tonality of its blooms and the absence of bluing or fading under hot and humid weather conditions; by its neat, upright and hardy habits of growth; by its production of good blooms throughout the growing season during the first year after planting and without diminishing the strength of the plant; by its heavy production of blooms on 2-year plants in the nursery rows, and by its good resistance to mildew and blackspot.

No. 1235. Rose plant. Ralph S. Moore, Visalia, Calif. A new and distinct variety of climbing hybrid polyantha rose, characterized in comparison to the climbing yellow Cecile Brunner rose variety by blooming more continuously, being substantially thornless and having more lasting color in the flowers; by the buds and flowers being apricot yellow in color, the buds being small and well-shaped and the flowers shading to a creamy yellow after several days open and being substantially the size of the flowers of the said Cecile Brunner variety. The plant is further characterized in comparison to the pollen parent, Goldilocks, by the apricot-yellow primary color of the buds and flowers and the substantial absence of thorns, and it is additionally characterized by being readily propagated, easy to grow when planted, blooming in the first season in the garden and, although a climber, being readily contained within a small space, as on a trellis.

No. 1236. Peach tree. John F. Duke, Sr., and Leman P. Duke, Fort Valley, Ga. A new variety of peach tree, characterized by the fact that it requires fewer chilling hours for production of buds and blossoms than other so-called early varieties and by ripening earlier than any known freestone-type peach; by producing a freestone fruit of unusually large size, having a tendency to a round shape and having uniform ribs on both sides of the seam; by the fruit having a skin of intense red, covered with less fuzz than the so-called early varieties and when brushed having the appearance of the plum or apple type of fruit; by the fruit meat being of fine texture and generally white, blended with pink and red, and by the seed of the fruit being of small type in comparison to the size of the fruit.

No. 1237. Rose plant. Frank Span-

SMALL FRUIT PLANTS

Grapes

Currents

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.
69 Orchard St. Fredonia, N. Y.

● GRAPES
● CURRENTS
● GOOSEBERRIES

All grades, including lining out and cuttings.
Known for Quality Since 1890

THE F. E. SCHIFFERLI & SON NURSERIES
FREDONIA, N. Y.

SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

E. C. MORAN, Stanford, Mont.

bauer, Decatur, Ill. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its upright and bushy habit of growth; by its relatively leathery foliage; by its relatively large and long-pointed buds; by its full-petaled flower of Neyron-pink general color tonality; by the uniformity of the color of its blooms and their good-keeping and long-lasting quality, with complete absence of bluing of the petals; by its habit of bearing flowers on relatively strong, long and large stems; by its freedom from bullheading of the flowers, and by its freedom and profusion of blooms, with attending superior production for cut flower purposes.

No. 1238. Lilac plant. To Walter E. Lammerts, La Canada, Calif., assignor to Descanso Distributors, Inc., La Canada. A new and distinct variety of lilac plant, characterized particularly as to novelty by its relatively short and mild winter-chilling requirements, by its regular and abundant production of large flower clusters consisting of large individual florets, by the substantial identity of the color of its flowers with those of the variety Kate Sessions (unpatented), by its vigorous habit of plant growth and by its abundant production of large and attractive foliage.

No. 1239. Rose plant. To Walter E. Lammerts, La Canada, Calif., assignor to Descanso Distributors, Inc., La Canada. A new and distinct variety of rose plant of the hybrid Wichuraiana class, characterized particularly as to novelty by its bushy and compact habit of growth; by its abundant production of dark green, large, flat and smooth leaves; by its glabrous stem growth and freedom from thorns; by its large, single-type flowers and the absence of petaloids; by the uniform deep lemon-yellow general color tonality of the flowers; by the dark buttercup-yellow color of the buds and their substantially complete freedom of red coloration; by the freedom of anthocyanin pigments in its stems and leaves; by the strong vermilion color of the anther filaments and their resultant marked contrast with the color of the open flowers; by the high resistance to mildew of both the foliage and the peduncles, and by its complete sterility and the absence of formation of hips and seeds.

No. 1240. Rose plant. Conrad C. O'Neal, North Canton, O., assignor to Edith C. Bosley, Mentor. A new and distinct variety of climbing rose plant, characterized particularly by its new combination of vigorous growth, red foliage and its profuse and continuous everblooming habit and perfection of bloom, having excellent high-centered form, distinct fragrance, long-lasting qualities and distinct bicoloring in tones of pink.

TWO JOIN PENN STATE HORTICULTURE STAFF

Robert J. Scannell, who received his bachelor's and master's degrees at Iowa State College, has become an instructor in landscape horticulture at Pennsylvania State College. Dr. Darrell E. Walker has joined the horticulture department as assistant professor of plant breeding. Dr. Walker received his doctorate at the University of California and was associated with the Rod McLellan Co., San Francisco.



Let this display help you sell Woodruff lawn seed. Keep it showing in windows and on counters.



Let this new Woodruff booklet help your customers to grow a luxuriant lawn from Woodruff seed.



Gro-Sod lawn food contains organic nitrogen. This is a superlative lawn fertilizer that will go twice as far with better results.



Woodruff products are advertised nationally to millions of home owners.



Dept. AN3-4

F. H. WOODRUFF & SONS, INC.

MILFORD, CONN. • TOLEDO, OHIO • DALLAS
BELLEROSE, L. I. • SALISBURY, MD. • ATLANTA • SACRAMENTO

Supplying the Seed House

Store and Nursery Trade

GLADIOLUS — DAHLIAS

For Quality-Conscious Buyers.

If you do not want quality, don't inquire.

TRIAL OFFER A GLADIOLUS

250 each of 10 outstanding varieties our selection in a wide range of color correctly labeled and carefully packed. Bulbs are No. 1 or 1½ inches in diameter and selected for appearance and eye appeal. Color prints of each variety available.

2500 Large, 1st size bulbs...\$ 75.00
Half collection, 1250 bulbs... 39.50
Double collection, 5000 bulbs 140.00

TRIAL OFFER B DAHLIAS

25 each of 10 outstanding varieties our selection. All plump, extra-heavy divisions and in the following range of types and good color range, correctly labeled.

5 Decorative varieties
3 Miniature varieties
2 Pompon varieties
250 Select Tubers.....\$40.50
Double Collection 90.00

Ask for Complete List of 150 varieties.

Growing 25 years

MOSES' BULB FARMS

50 acres

Box 92
LIMA, N. Y.

HOLLAND NURSERY STOCK of every description



Grown, graded and packed to meet the requirements of U. S. "A." import regulations.

Ask for beautifully illustrated trade list containing extensive assortments of **Azaleas, Rhododendrons, Shrubs, Conifers, Peonies, Phloxes, Bleeding Hearts** and other stock.

Our new race of **extremely hardy Rhododendrons** obtained highest awards at the Ghent Floralien, 1950, and Heemstede Flora, 1953.

FELIX & DYKHUIS—Boskoop, Holland

Growers and exporters of nursery stock for over 60 years.

The Homestead Nurseries H. G. Benckhuysen. Boskoop, Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

COLEUS A. B. C. DE LUXE

The outstanding selection of the very best. 1/2 Tr. pkt., \$1.00; Tr. pkt., \$1.75.

STREPTOCARPUS WIESMOOR

Our introduction, winning the American market. Revolutionary pot and cut flower. Tr. pkt., \$1.75; 3 Tr. pkts., \$4.75.

PHLOX BEAUTY

The compact dwarf Phlox with the most gorgeous colors. BLUE, CRIMSON, PINK, SALMON, SCARLET, VIOLET, WHITE, MIXED. Tr. pkt., 45¢; 1/4 oz., \$1.10; oz., \$3.60.

SALVIA ST. JOHN'S FIRE

Our even, compact, early strain is excellent. Tr. pkt., \$1.00; 1/4 oz., \$2.75; oz., \$9.00.

AMERICAN BULB Co

1335 W. Randolph St., CHICAGO 7
31 West 27th Street, NEW YORK 1

GLADS, DAHLIAS, LILIES and other Holland Summer-flowering Bulbs

Send for wholesale price list and details of the STASSEN BULB PLAN for SPRING, 1954—including your own colored RETAIL CATALOG which is now available at:

\$52.50 per 1000 copies
with your name and address
imprinted.



STASSEN
FLORAL GARDENS INC.
ROSLYN HEIGHTS, N. Y.

HEEMSKERK & CO., Bulbs WHOLESALE

AMERICAN and HOLLAND-
GROWN BULBS

229 Oak St. RIDGEWOOD, N. J.

DWARF FRUIT TREES BUDED ON EAST MALLING STOCK

Send your want list to:

THE C. D. MORRIS NURSERY, LTD.

P. O. Box 5
Ocean Park, B. C., Canada

FA. LE FEBER & CO.

BOSKOOP, HOLLAND

Established 1907

Wholesale Nurseries
Growers of

ACER CLEMATIS AZALEA
EVERGREENS
MAGNOLIA RHODODENDRON
LINING-OUT STOCK

Maurice C. Ravensberg

Boskoop, Holland

Reliable firm for general Nursery
Stock and Belgian plants.
Catalog on application.

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GRAVEL CONTENT OF SOILS INFLUENCES PERFORMANCE

Two soils can be similar in all other respects, but if the gravel content of the two varies, they are still vastly different in structure and performance. Results of a study on the distribution of coarse particles in four Connecticut soils and the effect this has on such factors as productivity, aeration, moisture-holding capacity and erosion were reported recently by Dr. C. L. W. Swanson, A. Ritchie, Jr., and H. A. Doehne, of the Connecticut agricultural experiment station. The report was made at the annual meeting of the Soil Science Society of America, held recently at Dallas, Tex.

Equally important with the total supply of gravel in a soil is the way it is distributed, whether it occurs near the surface or in the deeper layers of the soil. Of the four series of soils studied, Hinckley, Merrimac, Cheshire and Enfield, great differences in gravel distribution were noted. Such differences are important in soil classification and mapping and are being used currently in mapping the Hinckley and Merrimac soils in Hartford county, Connecticut.

Difference in Soils

The Hinckley surface, Dr. Swanson and his associates found, has more than 20 per cent of gravel; 12 inches below the surface, the gravel content increases to 60 per cent. The Merrimac, an important tobacco soil in the Connecticut valley, has less than 3 per cent gravel in the topsoil, and the percentage does not increase appreciably until the 24-inch depth is reached. Even here, the supply does not exceed 25 per cent. These physical differences become the limiting factor in the productivity of these soils. The Hinckley yields less tobacco than the Merrimac, using the same quantity of fertilizer and the same method of irrigation. Plant nutrients and water leach less readily from the thicker, less gravelly Merrimac.

To a degree, the presence of gravel in the soil acts as an erosion preventive. Both the Hinckley and the Merrimac generally have suffered little erosion because the gravelly substratum offers little resistance to the flow of excess water through the soil. The Enfield, the most erosive soil in Connecticut, not only has less gravel but at a 24-inch depth also is composed of a compact layer of finer soil particles which stop water percolation. Since the excess

rain water cannot go through the soil easily, it flows along the surface, taking soil with it down the slope.

Enfield and Cheshire soils, similar in physical make-up, were compared under cultivated and forested conditions. The Connecticut scientists found that the cultivated soil was considerably thinner in depth. This they attribute to three factors: Removal of stones and gravel from the surface for cultivation, compaction of the fine soil particles by tractors and other farm machinery and removal of soil by erosion.

WEST VIRGINIA MEETING

[Continued from page 10]

Amos, Inc., and other civic and public grounds for the entertainment of members and visitors. Tentative dates are August 4 to 6.

Further business included authorization of a wire of appreciation to Carlton B. Lees, former instructor of horticulture, West Virginia University, for his term as editor of Nursery Views and for the inspiration and aid he has given the association. Mr. Lees is now associated with Kingwood Center, Mansfield, O.

The proposed cut in the federal budget for the operation of the Japanese beetle quarantine was discussed, and it was agreed that the association would make a vigorous protest against this proposed action. Each member of the association was urged to contact his congressman and senators.

At the final business session, Fred Wildern, John Dieckmann & Sons, Elm Grove, reviewed the practices of irresponsible horticulturists in his community—"tree butchers," he called them—and described how some states are trying to protect citizens from their malpractices. Mr. Wildern told the group he was not taking an official stand for himself or his employers but stated that he loves trees and hates to see them butchered. He asked the association to study the matter.

A luncheon and a trip to the nursery of Conner & Amos, Inc., comprised the recreational part of the program. The luncheon table was appropriately decorated by Mr. and Mrs. Cecil Broom, Green Tree Nursery, St. Albans. The decoration was a miniature greenhouse and salesyard built with taxus cuttings, complete with toy tractors, a car and other equipment. Atlee Conner chauffeured a trailer-tractor tour of the nurseries, and the group inspected the propagating greenhouses.

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Hold Colorado Short Course

By W. B. Nuzum

An unexpectedly large attendance was on hand for the Colorado Nurserymen's short course, sponsored by the Colorado A. and M. College and the Colorado Nurserymen's Association and held at Fort Collins, Colo., January 27 and 28. The committee in charge of the meeting had expected 25 to 30 nurserymen to be on hand, but the actual attendance was closer to 85. The large turnout was attributed to the excellent program, the fact that a sample program had been sent to all nurseries in the state and the further fact that a personal invitation had been sent to all nurseries by W. B. Nuzum, president of the Colorado Nurserymen's Association.

Landscape Design Discussed

After welcoming addresses by A. M. Binkley, head of the department of horticulture at Colorado A. and M. College and W. B. Nuzum, president of the association, the program began with a discussion of landscape design by Dr. George Beach, of the department of horticulture of Colorado A. and M. College. Dr. Beach defined landscape design as the improvement of land and land form for use and enjoyment.

He emphasized that landscape planning should begin before a new home was built and that a number of factors should be taken into consideration in planning the project. Planning should be done with the future as well as the present in mind, as families grow and their needs and wants change with the passage of time. He stressed the fact that easy maintenance must be provided for, since most homeowners cannot afford professional gardening help and also cannot perform many intricate garden operations themselves.

After this address, Dr. Beach was joined by Prof. J. C. Jorgensen, also of the department of horticulture at the college, in the presentation of a workshop on landscape design. Each participant in the workshop was given a landscaping problem to solve, after which the plans were discussed by the group.


Professor Jorgensen then gave an address on sprays to retard dehydration during transplanting of trees and shrubs. He pointed out the great need for antidehydration materials in the dry climate which prevails in Colorado.

Professor Jorgensen was followed on the speakers' rostrum by F. Herbert Gates, chief of the division of plant industry of the Colorado department of agriculture. Mr. Gates discussed the well-known Colorado law relating to grades and standards of nursery stock. The law, which has evoked interest among nurserymen all over the country who ship stock into Colorado, was clarified by Mr. Gates and questions on it were answered.

Deciduous trees and summer-blooming shrubs for the Rocky

Mountain area was the topic of a discussion by Dr. A. C. Hildreth, superintendent of the Cheyenne horticultural field station, Cheyenne, Wyo. Dr. Hildreth discussed a number of summer-blooming shrubs that he felt were being overlooked in the mountain area. Among these he mentioned the late-flowering lilacs, caryopteris, blue mist spiraea, buddleia, hydrangea (in protected spots only), tamarix and althaea. Other plants native to the mountain area should be used more by nurserymen, he added, mentioning the Apache plume and several native blueberry elders. He also recommended that nurserymen try some of the new hybrid elms and the Schubert chokecherry.

Retail salesmanship was the next





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topic on the program, and it was discussed by R. V. Seaman, Loveland, Colo., district manager for the California Spray Chemical Corp. Success in selling, he said, is achieved by having the right product in the right amount at the right price at the right time, in the right place. Quality is a tremendously important factor, he added, and, if the quality is good enough, the matter of price tends to be forgotten by the customer. Instructions for the use of any product must be simple, he pointed out, and in addition, the merchant should be ready at all times to assist his customers in the use of the products he sells.

Association Dinner

On Wednesday evening, January 27, a dinner was held at the Northern hotel, Fort Collins, by the Colorado Nurserymen's Association. An excellent meal and musical entertainment were provided, followed by a short business meeting. At this meeting, officers of the association for the coming year were elected. The new officers are as follows:

President, Al Foster, Kroh Bros. Nurseries, Loveland; vice-president, Stanley Brown, Alameda Nursery, Denver, Colo.; secretary-treasurer, Carl Schulhoff, Schulhoff Nursery,

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Firmament, single, sky-blue.

Henri Martin, double, lilac-pink.

Jan van Tol, single, white.

Jeanne d'Arc, double, white.

Kate Sessions, single, mauve-purple.

Katherine Jones, single, rosy-purple.

Lucie Ballet, single, pink.

Marechal Foch, single, carmine.

Mrs. W. E. Marshall, single, dark purple.

Paul Thirion, double, claret-rose.

Pearl, single, white.

President Lincoln, single, sky-blue.

Professor E. H. Wilson, double, white.

Summer Skies, single, sky-blue.

Vestale, single, white.

White Hyacinth, single, white, late.

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Wheat Ridge, Colo.; executive secretary, Mrs. Edna Schulhoff, Wheat Ridge.

Newly elected directors include Wayne Nuzum, Nuzum Nurseries & Landscape Service, Boulder, Colo.; Paul Bradford, Bradford Flowerland, Denver; Roy Woodman, Woodman Bros. Nursery, Littleton, Colo., and Carl Ferguson, Northern Nursery Co., Denver.

Completing the evening's entertainment were two films, one on roses and the other on the development of flowers.

Lawn Success Requires Chemicals

The first topic at the Thursday morning session was lawn establishment and maintenance, by C. M. Drage, extension horticulturist of Colorado A. and M. College. Mr. Drage said a successful lawn in the Colorado area requires about 1,000 pounds of organic material—well-rotted manure, leaf mold or compost—to 1,000 square feet, plus 25 to 50 pounds of treble superphosphate thoroughly incorporated into six to eight inches of soil. Kentucky bluegrass is excellent for the area, and it should be sown at the rate of three to five pounds to 1,000 square feet on a firm and well-pulverized seedbed and covered with one-quarter inch of pulverized manure and leaf mold or compost or peat.

New lawns in the mountain area will probably need sprinkling twice a day at first, with the intervals between watering being increased and the quantity of water at each application being increased as the grass grows. Bluegrass lawn should be mowed to about two inches in height and fed three times each year with a high nitrogen fertilizer, so as to provide a total of six pounds of available nitrogen to 1,000 square feet.

Dean Dybing, department of botany and plant pathology, Colorado A. and M. College, reported on the progress of chemical control of crab grass. In experimental work at the college, areas are being planted with crab grass and chemicals are being applied, with results carefully observed. Several chemicals are being tested, including Chlordane, PL-62, PMAS and plain kerosene. Chlordane appears to be giving the best results, but no conclusions will be drawn from the experiments until final effects are noted next summer.

An address on public relations for the nurseryman was given by George Kelly, horticulturist for the Colorado Forestry and Horticulture Association. Mr. Kelly pointed out that the nurseryman must look at

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himself through the eyes of the public and this will convince him of the need for an attractive retail shop, adequate equipment, quality products and attentive service. The retail nurseryman is, said Mr. Kelly, a manufacturer, distributor, retailer and serviceman all in one, which, he added, is a difficult combination of responsibilities to carry out.

Mr. Kelly called upon his listeners to follow the principals of the boy scouts as a guide to success. A nurseryman, he said, must be trustworthy, helpful, friendly, courteous, loyal, kind, cheerful and clean. He must train himself and all his employees to "be prepared" to assist the public with horticultural problems.

NEW CHEMICAL MAY KILL WEEDS BY ROOT TRANSFER

Hope for an herbicide that can modify weed growth by moving from the root system of a treated plant to all nearby plants has increased with the discovery by United States Department of Agriculture researchers that a new growth modifier does make this type of movement.

The modifier is an organic chemical called MOPA (alpha-methoxyphenylacetic acid), first discovered by a University of Maryland chemist, Wilkins Reeve. U. S. D. A. scientists discovered the plant-to-plant movement during tests to determine the alteration of MOPA as it passes through bean stems. J. W. Mitchell and W. H. Preston, Jr., discovered, when they treated a field of beans, that although some plants were missed in the application, all showed the same growth modifying effect.

Further tests indicated that the movement of MOPA was through the roots rather than by means of vapor. The transfer was shown to take place in from six to nine hours. MOPA apparently travels through roots that touch each other or come close to each other, and there is no evidence that this chemical accumulates or remains in the soil in detectable amounts.

The researchers have checked nearly 30 other growth-modifying chemicals without finding one that works as MOPA does. It is hoped that the characteristics of MOPA can be developed into useful compounds such as herbicides, fungicides and nematocides.

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Juniper, Chandler's Silver	1.05
Juniper, Hill Dundee	1.05
Juniper, Southerland	1.05
Juniperus Burki	1.05
Juniperus Canaerti	1.05
Juniperus Keteleeri	1.05
Juniperus Meyeri	1.05
Juniperus Parkmani	1.05

2-year, field, size 10 to 12 ins., well branched.

Chamaecyparis Obtusa Hinoki Green	.85
Cypress, Tetragonia Aurea	.85
Taxus Baccata Aurea	.85
Taxus Cuspidata	.85
Taxus Cuspidata Aurea	.85
Taxus Fastigiata (size 12 to 15 ins.)	.85
Taxus Hatfieldi	.85
Taxus Hicksi	.85
Taxus Hill's Golden	.85
Taxus Hilli Nana	.85

3-year, field, dwarf, 8 to 10 ins.

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Nana Compacta Excelsa	1.25
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Juniperus Triparti	.55

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Cupressus Nootkatensis Glauca 15 to 18 ins., grafts	.85
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Gordon B. Laing, the recently
retired agricultural commissioner of
Alameda county, was honored at the
February 9 meeting of the Central
chapter of the California Associa-
tion of Nurserymen. Approximately
150 persons attended this function.

Mr. Laing, who was agricultural
commissioner of Alameda county for
about 20 years, accomplished a great
deal in the interest of nurserymen.
He was a leader in the movement to
push through pinto tag regulations,
and also worked for other legislation
favorable to the nursery industry. In
appreciation of his fine service, the
Central chapter gave him a substan-
tial cash gift.

High tribute was paid to Mr.
Laing by Arthur Navlet, the master
of ceremonies, and by many others.

About 50 distinguished guests
were in attendance. These included
the inspectors of Alameda and Con-
tra Costa counties, and representa-
tives of the state nursery service and
the leading bay area garden clubs.
Elmer Merz and Jim Wilson, execu-
tive secretary and president, respec-
tively, of the C. A. N., contributed to
the program. In addition, there were
five past presidents of the state asso-
ciation in attendance. These were
George Roeding, Jr.; Frank James;
Jack McDonnell; Ray Hartman, and
Herman Sandkuhle.

This meeting was hailed by all
present as a wonderful example of
the close working arrangement that
exists between the agricultural com-
missioners of the state and the nurs-
ery industry. President Bert Bertolero,
of Central chapter, conducted the
business part of the meeting.

SAN JOAQUIN MEETS

The January meeting of the San
Joaquin chapter of the California
Association of Nurserymen was held
at Sunia's Bungalow, at Madera, on
January 21, with 49 members and
guests present, including many of the
officers of the state association.

Vice-president Howard Riggs
opened the meeting, read a thank-
you card from Roberta Campin and
asked for a moment of silence in
memory of Dan Campin.

James H. Wilson, president of the

SHERWOOD'S CHOICE PYRAMIDALS

(*Thuja occidentalis pyramidalis*)

Fine western stock—well grown, well balled, well packed, all first class.

A most desirable arborvitae of narrow columnar growth, dense and compact without pruning. Planted in groups, it produces a most impressive alpine effect. In situations where effective hedges requiring but little space are desired, Pyramidal Arborvitae has no counterpart. The hedge becomes a solid wall of green from 4 to 20 feet in height as desired and occupies only 2 feet in width. For hedges, trees should be planted 18 inches apart. A Pyramidal Arborvitae hedge requires scarcely any care.

	Each	Per 10	Per 100	Per 1000
3 to 6 ins., once transplanted.....			\$13.00	\$104.00
6 to 9 ins., once transplanted.....			16.00	128.00
9 to 12 ins., once transplanted.....			20.00	160.00
12 to 15 ins., once transplanted.....			25.00	200.00
18 to 24 ins., twice transplanted B.R., hedging grade.....			50.00	400.00
These are heavy, field-grown plants, fine for lining out, potting up or for hedging. Will quickly grow into finished specimens.				
18 to 24 ins., twice transplanted B.R. specimens.....		\$ 9.00	\$ 81.00	
24 to 30 ins., twice transplanted, B&B.....	\$1.50	13.50	122.00	
30 to 36 ins., twice transplanted, B&B.....	1.85	16.70	150.00	
3 to 4 ft., twice transplanted, B&B.....	2.25	20.30	182.00	
4 to 5 ft., twice transplanted, B&B.....	2.75	24.75	223.00	
5 to 6 ft., twice transplanted, B&B.....	3.25	29.30	264.00	

REMEMBER: Sherwood Nursery Co. pays shipping costs on lining-out stock to all points in the United States, Canada and Alaska. In other words, the prices here quoted are net cash prices delivered to you. No packing charge on either B.R., B&B or lining-out stock. Prices quoted on B.R. and B&B stock are F.O.B. Portland, Ore. Twenty-five per cent will reserve stock for later delivery. 25 plants at the 100 rate, 250 plants at the 1000 rate.

No order booked without a deposit.



SHERWOOD NURSERY CO.

Wholesale Propagators and Growers of Evergreens

141 S. E. 65th Ave.

Portland 16, Ore.

C. A. N., then spoke of the effect of good public relations upon the industry, and David S. Stump, vice-president, of the C. A. N., reported on the membership campaign of that group. Carl Sickler reported briefly on the state publicity campaign and outlined the excellent response received from informative articles recently published in newspapers. He urged members to prepare and submit current publicity material to Elmer Merz for use in the program.

Merton W. Weymouth reported on the San Joaquin Rose Society's current project of creating a complete rose garden at Fresno. Mr. Weymouth asked for donations of roses, in blocks of 25, from any individual or firm which wishes to give them to the rose garden.

Mr. and Mrs. Willis Stribling were honored on their 11th wedding anniversary, and Frank and Mabel Graziano on their 22nd anniversary.

Cuma and Howard Riggs provided camellia corsages for the ladies and also arranged the table decorations.

GORDON COURTRIGHT, owner and manager of East Bay Nursery, Berkeley, Calif., has recently announced that his establishment has changed over to self-service operations.

IS YOUR INCOME

MOSTLY OUTGO?

Change the Picture

By Buying **ELMER'S** Quality Roses

They Never Let You Down!



TREES • CLIMBERS • BUSHES

NEW AND OLD



Wholesale Only.

Send for Catalog.

ELMER ROSES

6708 N. San Gabriel Blvd.

SAN GABRIEL, CALIF.

ARBORVITAE and CYPRESS SPECIAL

Alluri Blue, 2 to 3 ft., \$1.50; 3 to 4 ft., \$1.75; 4 to 5 ft., \$2.25

Pyramidalis, 2 to 3 ft., \$1.50; 3 to 4 ft., \$1.75; 4 to 5 ft., \$2.25

Hovey and Woodward, 15 to 18 ins., \$1.20; 18 to 24 ins., \$1.50

Write for catalog on lining-out stock, fruit, shade and evergreen trees.

BENEDICT NURSERY CO.,

735 N. E. 87th Ave.,

PORTLAND 16, ORE.

CLASSIFIED ADS

Rate: 35 cents per line, each insertion.

Minimum order, \$3.50

Instructions for the next issue must be received by Friday, March 12.

AZALEAS

AZALEAS
Transplanted rooted cuttings, Hinodegirl, Indica Alba and named Kaempferi hybrids, 14c each, per 1000 quantity; 12½c each, in quantity of 5000 or more.

FIELD-GROWN KAEMPFER HYBRIDS
12 to 15 ins. B&B, \$2.00 each per 100; \$1.75 each per 100; 15 to 18 ins. B&B, \$2.75 each per 100; \$2.25 each per 100.

WHITE DOGWOOD (Specimen material)
4 to 5 ft. B&B, \$4.75 each per 100; \$4.25 each per 100; 5 to 6 ft. B&B, \$6.00 each per 100; \$5.00 each per 100; 6 to 7 ft. B&B, \$8.50 each per 100; \$7.00 each per 100.
The above prices F.O.B. Norristown, Pa.
DEKALE NURSERIES, INC.
Box 67, Norristown, Pa.
Phone: Norristown 5-1597

AZALEAS

150,000 field-grown, clean azaleas, all varieties, 12 to 15 ins. Buy hardy northern-grown from the largest azalea nursery in the north.

Also, May 1 delivery, lining-out azaleas, 15c each, 60 in a flat. Special prices on large quantities.

MIDDLE ISLAND NURSERIES
Baler Lustgarten, Prop.
Middle Island, L. I., N. Y.

AZALEAS

Thousands of beautiful Kurume Azaleas. Dense, bushy, well-budded — for landscape planting and forcing. Book your order now while there are still some available.

THE TANKARD NURSERIES
Exmore, Virginia

AZALEA LINERS

Formosa, Pride of Mobile, Judge Solomon, heavy, 2-yr., liners, 12 to 15 ins., \$12.50 per 100.

HILLTOP NURSERIES
Rt. 1 Loxley, Ala.

AZALEA MOLLIS

2-yr., TT., bed run, \$160.00 per 1000. No order less than 500. Cash please.

LYON GARDENS & NURSERY
Rt. 1 Centuria, Wash.

BERRY PLANTS

RASPBERRY PLANTS
Revolutionary new Durham off-season red Raspberry plants. Bears mid-August to mid-October. Cut all canes back to ground each fall. Crop comes on new growth each year. Eliminates winter killing. Also, Indian Summer Everbearing Raspberry plants.

Write for wholesale prices.
Strawberry Plants, New Maine 55, Orland, Monmouth, Empire, Erie, Eden, Vermilion, N. H. 246 and 25 other standard and everbearing varieties Catalog free.
WALTER K. MORSS & SON
Bradford, Mass.

EVERBEARING STRAWBERRIES

True to name Per 1000 Per 5000
Streamliner \$16.00 \$15.00
Superfection 16.00 15.00
Gem 15.00 14.00
20th Century Utah 32.50 30.00

LATHAM RASPBERRIES, No. 1
Newburgh, No. 1 suckers, 40.00
Newburgh, No. 1 suckers, 30.00

DAVIS PLANT FARMS
Hamilton, Mont.

RASPBERRIES
DURHAM AND SEPTEMBER Per 100 Per 1000
No. 2 plants \$ 8.00 \$ 75.00
No. 1, 3/16 to 1/4-in. cal. 9.50 90.00
Heavy, 5/16 ins. and up 12.50 120.00
Transplants, br. 16.00 150.00
BRISTOL, No. 1 tips 6.00 55.00
MORRISON, No. 1 tips 5.50 55.00

Doubly inspected. Cash. Free packing.
WHELOCK WILSON NURSERY
Marshalltown, Ia.

RASPBERRY PLANTS

Per 100 Per 1000
Durham Red Everbearing, \$9.00 \$80.00
Transplants 8.00 70.00
No. 1, suckers 8.00 70.00
No. 2, suckers 6.50 55.00

C. H. BENEDICT
Grand Junction, Mich.

STRAWBERRY PLANTS

State Inspected
Blakemore, \$6.00 per 1000.
Tennessee Supreme, \$6.00 per 1000.
SAM PACK NURSERY
Rt. 5, Smithville, Tenn.

STRAWBERRY PLANTS

Double inspected, northern-grown. Dunlap, Blakemore, Premier, Giant Robinson, \$10.00 per 1000; \$45.00 per 5000. Giant Gem, Streamliner, Minnesota, 1166, everbearing, \$19.00 per 1000.

These are young, healthy, freshly dug plants, guaranteed to reach you in good growing condition.

IOWA NURSERY
Farmington, Ia.

STRAWBERRY PLANTS

Senator Dunlap, Robinson, Temple, Premier and Catskill, \$12.00 per 1000, 500 at 1000 rate. Our plants are grown right, dug fresh and are packed to reach our customers in the best possible condition. A trial order will be convincing.

46 years in the nursery business.

RATHBUN NURSERY
Coldwater, Mich.

Giants of the Strawberry world. New varieties, Blaise, Phelps, Stratford and N.H. 269. Heavy yield, extra flavor, firm shippers, medium late to very late. University of New Hampshire originations by Dr. Latimer. Nurserymen, there will be a big demand for these excellent varieties. Plants not plentiful. Circular.

DONALD C. CHANDLER
Box A New Gloucester, Me.

BERRY PLANTS

Per 1000
Latham, No. 1 suckers \$45.00
Sunrise, No. 1 suckers 45.00
Indian Summer, No. 1 suckers 50.00

CHAMPION NURSERIES
Perry, O.

A NEW BLUE SEEDLESS GRAPE will be introduced in 1955, nearly as large as Concord, but much sweeter and much hardier. Just as vigorous and heavy bearing.

15 years under test.
SCHWAB FRUIT FARM & NURSERY
220 N. 5th St. Mankato, Minn.

STRAWBERRIES — Improved Dunlap, double inspected. Irrigated, heaviest producers of them all for us. Fresh-dug, guaranteed to reach you in good growing condition \$8.00 per 1000.

RILEY'S NURSERY, Concordia, Kan.

BULBS AND TUBERS

TUBEROUS-ROOTED BEGONIAS

Selected Belgium-grown Bulbs.
DOUBLE CAMELLIA—FLOWERING
Red, orange, salmon, yellow, scarlet, pink, copper, white, mixed.

Per 100 Per 1000
Exhibition size \$16.00 \$140.00
2 ins. 14.00 120.00
1½ to 2 ins. 10.00 90.00
1¼ to 1½ ins. 6.00 50.00

DOUBLE FIMBRIATA (Carnation-type)
In 6 separate colors or mixed.
Double Multifloras in 4 colors.
Double Pendulas in 6 colors.
Double Camellia, Marmorata, Rosebud

Per 100 Per 1000
Top size \$16.00 \$140.00
First size 10.00 90.00
Minimum order, \$10.00. Cash with order.
FOB. Battle Creek, Mich.

VERONA GARDENS
Battle Creek, Mich.

UNUSUAL BULBS

Per 100
Amayyllis, American-Dutch hybrids \$50.00
Amayyllis Halli (Magic-Lily) 15.00
Amayyllis Formosissima (Aster-Lily) 35.00
Acidantha Muriellae (Abyssinian Glad) 5.00
Arum Santicum (Paestian Arum) 50.00
Amorphophallus Riviera (Indian Arum) 50.00
Calla Ethel Roosevelt 20.00
Crinum Album Magnificum 50.00
Cooperia Drummondii 50.00
Eucharis Amazonica (Amazon-Lily) 50.00
Galtonia (Summer-Hyacinth) 5.00
Gloriosa Rothschildiana 50.00
Milla Biflora 6.00
Pancratium Maritimum 35.00
Oxalis (Four-leaf Clover) 2.00
Zephyranthes pink, white, yellow 6.00

J. HENDRIKS, GROWER, Portage, Mich.

QUALITY GLADIOLUS BULBS

We offer over 60 varieties, hand dug from bulbets and planting stock, at wholesale.

Write for listing.
KROH BROTHERS NURSERIES
Loveland Glad Gardens
Loveland, Colo.

TUBEROUS BEGONIAS

Giant Double-flowering Camellia type, 8 colors.

1½ to 1½ ins. \$ 5.50 per 100; \$ 45.00 per 1000
1½ to 2 ins. 8.50 per 100; 75.00 per 1000
2 ins. up 12.50 per 100; 115.00 per 1000

Double-flowering Fimbriatus Carnation-type, 6 colors.
1½ to 1½ ins. 7.00 per 100; 60.00 per 1000
1½ to 2 ins. 11.50 per 100; 100.00 per 1000
2 ins. up 15.00 per 100; 140.00 per 1000

Minimum order \$5.00.

FANCY-LEAVED CALADIUMS

The finest of commercial named varieties. Over fifty varieties to choose from. All fully upgraded to size.
No. 2, 1 to 1½ ins. \$12.00 per 100
No. 1, 1½ to 2½ ins. 18.00 per 100
Jumbo, 2½ to 3½ ins. 25.00 per 100
Mammoth, 3½ ins. up 37.00 per 100
Orders totaling 1000 bulbs, 10 per cent discount. Minimum order \$5.00.
Send for our Colored Chart of varieties.

GLOXINIA

The Best Commercial Varieties
1½ to 1½ ins. \$ 7.50 per 100; \$ 65.00 per 1000
1½ to 2 ins. 14.00 per 100; 130.00 per 1000
2 ins. up 22.00 per 100; 190.00 per 1000

Mammoth Bulbs, limited \$5.00 per 100

Minimum order \$5.00.

DAHLIAS

Each
Avalon, yellow \$0.12
Bronze Ball, bronze and gold15
Crown of Gold, red and gold15
D-Day, rose-pink20
Gallant Fox, red12
Gemma Clara, yellow, cactus25
Gertrude Britton, brick red18
Golden Eclipse, yellow15
Improved Gold Medal, gold and red18
Improved Francis Laroche, yellow16
Jane Cowl, bronze-yellow25
Jean Kerr, white10
Jersey Beauty, pink15
Kentucky orange32
Lady in Red, red, cactus25
Le Toreador, red12
Marie, salmon-pink20
Michigan White, white22
Mrs. James Albion, yellow15
Mrs. Geo. Le Boutillier, velvety carmine14
Mrs. I. De Ver Warner, lavender20
New York Market, white and lavender18
Orange Flame, reddish-orange22
Queen City, scarlet-pink20
Rose Ball, deep pink18
Ruby Taylor, vivid red25
September, yellow and red20
Sherwood Peach, deep orange20
Supt. Amryhn, lavender-pink17
Victory, pink gold20
Watching Giant, deep yellow15
White Jersey, white25
White King, white18

MINIATURE FLOWERING

Bishop of Landaff18
Grenadier, orange-red, red foliage20
Ike, dark red20
Lemon Drop, yellow18
White Fawn, white14
POM POM
Bronze Beauty, golden-bronze16
Cardinal, bright red20
Catherine, yellow14
Golden Beauty, large, yellow18
Golden Queen, yellow14
Little Herman, red and white12
Little Roseata, soft pink16
Mary Munns, lavender12
Morning Mist, white and lavender12
Yellow Gem, yellow12

Minimum order, \$5.00. Not less than 5 of a variety.

LOUIS DANK

1170 Broadway New York 1, N. Y.

HARDY MICHIGAN-GROWN LILY BULBS

New, rare, scarce and unusual as well as standard varieties. Send for your free copy. New wholesale list now ready.

J. HENDRIKS, GROWER, Portage, Mich.

Classified Ads Offer Maximum Results at Minimum Cost.

CAMELLIAS

CAMELLIA SASANQUAS
Special Offer
2 and 3-yr. liners, mostly branched.

Per 100 Per 1000
Mine-No-Yuki \$30.00 \$150.00
Cleopatra 20.00 150.00
Day Dream 20.00 150.00

COTTAGE HILL NURSERY
Rt. 4, Box 130, Mobile, Ala.

CAMELLIA LINERS

Pink Perfection, Prof. Sargent, transplanted 2-yr. liners, \$25.00 per 100.

SASANQUAS

Dawn, Cleopatra and Rosea, 12 to 18 ins., transplanted, \$20.00 per 100; 24 to 30 ins., 2-yr., transplanted, heavy, \$35.00 per 100.

HILLTOP NURSERIES

Rt. 1 Loxley, Ala.

CHRYSANTHEMUMS

HARDY CHRYSANTHEMUM

Write for our 1954 Hardy Chrysanthemum wholesale list featuring the famous "Military" Mums, the Universities of Nebraska, Minnesota, Chicago and many other money-making summer-flowering chrysanthemums. Many of these make excellent cut flowers that need no shading to produce flowers in late July and August. Top-quality, strong-rooted cuttings and banded plants at competitive prices. SEND FOR YOUR LIST TODAY.

CORLISS BROS., INC., NURSERIES
19 Reynard St. Gloucester, Mass.

CHRYSANTHEMUMS

Healthy, strong, outdoor-grown rooted divisions.

Medium and low-growing cushion types. 10 varieties—our choice—\$5.00 per 100. Offer includes new and standard varieties, labeled and in well-balanced assortment.

Please include postage.

THE SEVEN MAPLES NURSERY

North Collins, N. Y.

MODERN MUMS FOR 1954

Our spring trade list includes the finest new varieties and features our new cushion Copper 'n Gold. Also listed are 11 fine new hardy asters. Copy on request.

FLEMING'S FLOWER FIELDS

3100 Leighton Ave. Lincoln, Neb.

SEND FOR OUR CHRYSANTHEMUM CATALOG

Varieties you can't afford to be without.

WONDERLAND NURSERIES

Box 3 Ellersson, Va.

DAISIES

HORACE READ

A sensational new English import that is a vigorous, hardy grower. Prolific bloomer with large, aster-like flowers about 4 ins. across. The bush attains a height of about 24 inches. Originator's stock. Plant patent 465. \$30.00 per 100, \$250.00 per 1000.

COBBHAM'S GOLD

The world's finest colored Shasta Daisy. Hybridized by the Earl of Darnley. Photo on request. Imported originator's stock. \$2.50 per plant, \$21.50 per dozen, \$175.00 per 100.

IMPROVED ESTHER READ

A taller plant with larger flowers on longer, stouter stems. Blooms continuously. Imported original stock. \$7.00 per doz., \$50.00 per hundred.

AGLAYA

Beautiful, frilly flowers, \$12.50 per 100, \$100.00 per 1000.

SPECIAL SALE

MARCONI, \$6.00 per hundred, \$40.00 per 1000.
MAJESTIC, \$7.00 per hundred, \$65.00 per 1000.

JEROME W. LEVY

1144 Estrella Drive
Santa Barbara, Calif.

DELPHINIUMS

LYONDEL GIANT HYBRID DELPHINIUM

This strain withstands the combinations of droughty summers and severe winters. Exceptionally large flowers; wide range of beautiful colors; doubles, semidoubles, and singles. Many customers report better than 90 per cent doubles.

We should SHOUT more about these LYONDEL HYBRIDS. If you haven't grown them, enjoy the best by test!

FIELD-GROWN PLANTS — Mixed colors only, \$3.75 per doz.; \$22.50 per 100; \$200.00 per 1000.

Our SEED germinates practically 100 per cent. No refrigeration is necessary to keep it, either, \$20.00 per oz.; \$11.00 per ½ oz.; \$6.00 per ¼ oz.; \$3.00 per packet.

CORLISS BROS., INC., NURSERIES
19 Reynard St. Gloucester, Mass.

EVERGREENS

NURSERY STOCK

500 Colorado Blue Spruce, good shape, with many good shiners and ranging from 2½ to 7 ft., B.&B., \$2.00 per ft.

500 American Pyramidal Arborvitae, ranging from 3½ to 6 ft., B.&B., 80c per ft.

500 Azalea Mollia (Flame), budded, 9 to 12 ins., B.&B., \$1.00 each; 12 to 15 ins., B.&B., \$1.50 each; 15 to 18 ins., B.&B., \$2.00 each.

500 Pfitzer Juniper (sheared), 18 to 24 ins., B.&B., \$3.50 each.

All stock is to be picked up at our nursery by purchaser.

SYLVANIA NURSERY & PEAT CO.

State Rta. 361 and 168, New Galilee, Pa.

LINING-OUT LIST

Prices subject to change without notice. All potted liners on this list are priced for shipment in paper pots or cups. Those who prefer the ordinary method of packing, omitting this added protection, may deduct 1c per plant.

The 1000 rate applies on all orders; therefore, please order in multiples of 25 or more.

EACH

BIOTA AUREA NANA (BERCKMANS)

2½-in. pot\$0.20

BIOTA AUREA PYRAMIDALIS COMPACTA

2½-in. pot25

BIOTA BAKERI

2½-in. pot18

8x12 ins., T.T.T., B. R., field-grown

..... .35

12x18 ins., T.T.T., B. R., field-grown

..... .40

BIOTA BONITA

2½-in. pot16

BIOTA EXCELSA

2½-in. pot18

2½-in. pot20

BIOTA SIBYL

2½-in. pot18

12x18 ins., T.T.T., field-grown

..... .40

CHAMAECYPARIS LAWSONIANA ALUMI,

Blue Lawson Cypress

2½-in. pot18

2½-in. pot20

JUNIPERUS CHINENSIS PFITZERIANA

2½-in. pot17

2½-in. pot18

JUNIPERUS PFITZERIANA NANA

2½-in. pot25

2½-in. pot26

JUNIPERUS CHINENSIS FORTUNEI

Fortune Juniper

2½-in. pot24

2½-in. pot25

JUNIPERUS CHINENSIS VIRIDIFOLIA

Densa Glaucous

2½-in. pot25

2½-in. pot26

JUNIPERUS COMMUNIS KIYONOI

2½-in. pot20

JUNIPERUS DEPRESSA PLUMOSA

Andorra Juniper

2½-in. pot17

2½-in. pot18

JUNIPERUS EXCELSA STRICTA

2½-in. pot18

2½-in. pot16

JUNIPERUS GLAUCA HETZI

2½-in. pot18

2½-in. pot18

JUNIPERUS HIBERNICA FASTIGIATA

2½-in. pot18

2½-in. pot18

JUNIPERUS JAPONICA PROCUMBENS

2½-in. pot20

2½-in. pot20

JUNIPERUS JAPONICA VIRGINALIS

2½-in. pot18

JUNIPERUS SABINA TAMARISCIFOLIA

2½-in. pot20

2½-in. pot20

JUNIPERUS VIRGINIANA KETELEERI

2½-in. pot25

ABELIA GRANDIFLORA

2½-in. pot14

2½-in. pot16

BUXUS SEMPERVIRENS CRONI

Hardy Canadian Boxwood

2½-in. pot18

2½-in. pot20

BUXUS SUFRUTICOSA

Old-Fashioned English Boxwood

Rooted Cuttings07

3x4 ins., T.T., B. R.09

4x6 ins., T.T., B. R.10

1½ x 2½-in. Vita-Bands12

6x8 ins., T.T.T., field-grown15

CAMELLIA SASANQUA, MAIDEN'S BLUSH

2½-in. pot10

2½-in. pot12

ELEAGNUS FRUITLANDI

2½-in. pot19

2½-in. pot20

8x12 ins., T.T.T., field-grown20

12x18 ins., T.T.T., field-grown25

EUONYMUS PATENS SIEBOLDIANUS

Large Leaf

2½-in. pot13

2½-in. pot15

EUONYMUS PATENS SIEBOLDIANUS

Small Leaf

1½ x 2½-in. Vita-Bands12

2½-in. pot13

GARDENIA FORTUNEI

2½-in. pot10

2½-in. pot12

ILLICUM ANISATUM

2½-in. pot18

ILEX CORNUTA BURFORDI

2½-in. pot16

2½-in. pot17½

ILEX CRENATA CONVEXA BULATA

2½-in. pot16

2½-in. pot17½

ILEX OPACA HUME NO. 2

2½-in. pot18

2½-in. pot20

ILEX CRENATA ROTUNDIFOLIA

2½-in. pot17

2½-in. pot18

JASMINUM FLORIDUM

2½-in. pot12

LAUROCERASUS CAROLINIANA

Laurel Cherry

3x4 ins., Seedlings06

4x6 ins., Seedlings08

2½-in. pot14

LIGUSTRUM IONANDRUM

2½-in. pot18

2½-in. pot20

(Continued in next column.)

(Continued from previous column.)

LIGUSTRUM JAPONICUM

2x3 ins., Seedlings02

LACINSTRUM INDICA WM. TOOVEY

2½-in. pot20

SPIRAEA ANTHONY WATERER

2½-in. pot12

6x9 ins., field-grown18

LIGUSTRUM LUCIDUM COMPACTUM

1½ x 2½-in. Vita-Bands10

2½-in. pot13

2½-in. pot13

MAGNOLIA GRANDIFLORA

4x6 ins., Seedlings06

6x8 ins., Seedlings08

2½-in. pot13

2½-in. pot14

MAHONIA BEALEI

2-in. pot15

2½-in. pot20

NANDINA DOMESTICA

3x4 ins., Seedlings04

2½-in. pot10

2½-in. pot12

OSMANTHUS AQUIFOLIUM

2½-in. pot18

2½-in. pot20

PYRACANTHA LALANDI

2½-in. pot16

2½-in. pot18

PYRACANTHA YUNNANENSIS

2½-in. pot18

TEUCRIUM CHAMADRYS

(Dwarf Evergreen for borders)

2½-in. pot14

ACER PALMATUM

Greenleaf Japanese Maple

2½-in. pot, Seedlings10

ACER PALMATUM ATROPURPUREA

Red Japanese Maple

2½-in. pot, Seedlings35

BERBERIS THUMBERGI

ATROPURPUREUM

Redleaf Barberry

2½-in. pot15

CORNUS FLORIDA

6x8 ins., Seedlings05

8x12 ins., Seedlings07

KOLKUTZIA AMABILIS

2½-in. pot15

SPIRAEA REEVESIANA FLORE-PLENO

Double Reeves Spiraea

2½-in. pot16

WEIGELA EVA RATHKE

2½-in. pot18

2½-in. pot19

SPECIAL NOTICE: Items marked by asterisk (*) delivery late spring. All items

not so marked ready for immediate shipment

or later to suit customer's requirements.

See our classified ad offering surplus lining-out stock in lots of 25 or more under

Lining-Out Stock in this issue.

T. G. OWEN & SON, INC.

COLUMBUS, MISS.

SPECIMEN LANDSCAPE SIZE EVERGREENS

Each

Biota Aurea Conspecta,

3 to 4 ft. \$3.00

4 to 5 ft. 3.50

5 to 6 ft. 4.00

Juniperus Chinensis Densa Glaucous,

3 to 4 ft. 3.75

Juniperus Chinensis Keteleeri,

5 to 6 ft. 6.00

6 to 7 ft. 7.00

Juniperus Chinensis Pfitzeriana,

18 to 24 ins. 2.50

24 to 30 ins. 3.00

EVERGREENS—Continued

EVERGREEN LINING-OUT STOCK
Fine Lot of Liners for Immediate or Spring
Shipment. Write for Complete List.

Per 10 Per 100	
Arborvitae Boothi (Best Globe), 4 to 6 ins. X	\$2.00 \$17.50
Arborvitae Boothi (Best Globe), 6 to 8 ins. X	2.50 22.50
Arborvitae Globosa, 4 to 6 ins. X	2.00 17.50
Arborvitae Nigra (Dark Green), 4 to 6 ins. X	2.00 17.50
Arborvitae Nigra (Dark Green), 6 to 8 ins. X	2.50 22.50
Arborvitae Pyramidalis, 4 to 6 ins. X (\$165.00 per 1000)	2.00 17.50
Arborvitae Siberian, 6 to 8 ins. X	2.50 22.50
Arborvitae Siberian, 8 to 10 ins. X	3.25 27.50
Arborvitae Biota Bonita, 6 to 8 ins. X	2.50 22.50
Berberis Jullianae, 4 to 6 ins. X	2.50 18.00
Buxus Sempervirens, 6 to 8 ins. X	2.25 20.00
Buxus Sempervirens, 8 to 10 ins. X	2.75 25.00
Buxus Suffruticosa (O. E. Dwarf), 4 to 6 ins. X	2.25 17.50
Euonymus Carrierei, 12 to 15 ins. X	18.00
Ilex Burfordi, 3-in. pot.	3.50 30.00
Ilex Crenata, 4 to 6 ins. X	2.00 17.50
Ilex Crenata, 6 to 8 ins. X	2.50 22.50
Ilex Crenata, 8 to 10 ins. X	3.00 27.50
Ilex Convexa Bullata, 4 to 6 ins. X	2.00 17.50
Ilex Convexa Bullata, 6 to 8 ins. X	2.50 22.50
Ilex Rotundifolia, 4 to 6 ins. X	2.00 17.50
Juniperus Andorra, 4 to 6 ins. X	2.00 17.50
Juniperus Andorra, 6 to 8 ins. X	2.50 22.50
Juniperus Andorra, 8 to 10 ins. X	3.00 26.00
Juniperus Hetzi Glauca, 6 to 8 ins. X (\$215.00 per 1000)	2.50 22.50
Juniperus Hetzi Glauca, 8 to 10 ins. X	2.75 25.00
Juniperus Hetzi Glauca, 10 to 12 ins. X	3.75 32.50
Leucothoe Catesbaei (Drooping Leucothoe), 1-yr. X flats	2.00 16.00
Ligustrum Lucidum (Waxleaf Privet), 6 to 8 ins. X	2.50 22.50
Pieris Japonica, 4 to 6 ins. X	2.00 17.50
Pieris Japonica, 6 to 8 ins. X	2.50 22.50
Regel's Privet, 2-yr. T.	18.00
Pyracantha Lalandi, 3-in. pot.	4.00 30.00
Retinospora Ericoides, 4 to 6 ins. X	2.00 17.50
Retinospora Ericoides, 6 to 8 ins. X	2.50 22.50
Retinospora Gold-dust, 4 to 6 ins. X	2.00 17.50
Retinospora Obtusa Crippsii, 4 to 6 ins. X	2.00 17.50
Retinospora Obtusa Crippsii, 6 to 8 ins. X	2.50 22.50
Retinospora Flaccida Aurea, 6 to 8 ins. X	2.50 20.00
Retinospora Plumosa, 4 to 6 ins. X	1.75 15.00
Retinospora Squarrosa Veitchii, 6 to 8 ins. X	2.50 22.50
Taxus Cupidata, 4 to 6 ins. X	2.00 17.50
Taxus Cupidata, 6 to 8 ins. X	2.50 22.50
Taxus Hatfieldi, 4 to 6 ins. X	2.00 17.50
Taxus Hatfieldi, 6 to 8 ins. X	2.50 22.50
Taxus Hicksi, 4 to 6 ins. X	2.25 17.50
Taxus Intermedia, 8 to 10 ins. X	3.50 30.00
Taxus Vermeulen, 8 to 10 ins. X	3.00 27.50

ESHAM'S NURSERIES Millboro, Del.

EVERGREEN LINERS AND CUTTINGS

Each Per 100 Per 1000	
Arborvitae, American Dark Green, 1-yr. pots	\$0.20 \$0.18
Arborvitae, Globe, 1-yr. pots	.20 .18
Arborvitae, Pyramidal, 1-yr. pots	.20 .18
Arborvitae, Pyramidal, 2-yr. pots	.26 .24
Euonymus alatus compactus, 1-yr. pots	.18 .16
Juniper, Blue Hetz, 1-yr. pots	.22 .20
Juniper, Blue Hetz, 2-yr. pots	.27 .25
Juniper, Gold Pfitzer, 1-yr/ pots	.27 .25
Juniperus chinensis pfitzeriana, 1-yr. pots	.24 .22
Juniperus pfitzeriana compacta, 1-yr. pots	.24 .22
Juniperus virginiana burkii, 2-yr. pots	.37 .35

HEAVY-ROOTED CUTTINGS

From flats, rooted outside in lath house.
Delivery now or spring, 1954.

Arborvitae, American Dark Green	.10 .09
Arborvitae, elegantissima	.10 .09
Boxwood, Korean	.09 .08
Euonymus alatus compactus	.09 .08
Euonymus erectus	.07 .06
Euonymus vegetus	.09 .08
Juniper, Swedish	.10 .09
Juniperus glauca hetzi	.11 .10
Taxus brownii	.11 .10
Taxus cupidata	.11 .10
Taxus hatfieldi	.11 .10
Taxus intermedia	.11 .10
Taxus media hicksi	.11 .10
Taxus media, spreading	.11 .10

2 per cent discount and free packing for cash with order.

25 plants at 1000 rate.
MIAMI NURSERY CO.
Tipp City, O.

VARIETY SEEDLINGS FOR SPRING

Per 100 Per 1000	
Scotch Pine, 2-yr., 2 to 4 ins.	\$2.00 \$10.00
Scotch Pine, 2-yr., 4 to 6 ins.	4.00 20.00
Riga Scotch Pine, 2-yr., 2 to 4 ins.	3.00 15.00
Riga Scotch Pine, 2-yr., 4 to 8 ins.	5.00 25.00
Scotch Pine, 3-yr., 5 to 8 ins.	6.00 30.00
Scotch Pine, 3-yr., 8 to 12 ins.	8.00 40.00
Austrian Pine, 2-yr., 3 to 5 ins.	4.00 20.00
American Red Pine, 2-yr., 2 to 4 ins.	3.00 15.00
American Red Pine, 2-yr., 3 to 5 ins.	5.00 25.00
American Red Pine, 2-yr., 3-yr., 4 to 8 ins.	6.00 30.00
Mugho Pine (Dwarf), 2-yr., 1 to 3 ins.	4.00 20.00
White Pine, 2-yr., 2 to 4 ins.	4.00 20.00
Norway Spruce, 2-yr., 3 to 6 ins.	4.00 20.00
White Spruce, 2-yr., 3 to 6 ins.	5.00 25.00
White Spruce, 3-yr., 4 to 8 ins.	8.00 40.00
Colorado Blue Spruce, 2-yr., 2 to 4 ins.	5.00 25.00
Colorado Blue Spruce, 2-yr., 4 to 8 ins.	7.00 35.00
Douglas Fir (Green), 2-yr., 3 to 6 ins.	5.00 25.00
Douglas Fir (Green), 2-yr., 5 to 10 ins.	8.00 40.00
Douglas Fir (Blue), 2-yr., 3 to 6 ins.	6.00 30.00
Douglas Fir (Blue), 3-yr., 4 to 8 ins.	7.00

TRANSPLANTS

Scotch Pine, 2-1, 3 to 6 ins.	6.00 30.00
Colorado Blue Spruce, 2-2, 3 to 5 ins.	10.00 50.00
Colorado Blue Spruce, 2-2, 4 to 8 ins.	12.00

Pennsylvania orders, add 1% sales tax to exemption certificate. Cash or 25% deposit with order. Balance, C.O.D. 5% discount on quantities of 50,000.

SAM DIBLE NURSERY

R.F.D. 3 Shelocta, Pa.

GOLDEN GOOSE LINERS

For Immediate Delivery or for Reservation.
All quotations are for beautiful lining-out stock from 2 1/2-in. pots, grown in open beds, under field conditions and ready for field planting.

HOLLY

Per 100	
Ilex Cornuta Burfordi (Chinese Holly), 6 to 10 ins.	\$18.00
Ilex Cornuta Burfordi, 4 to 6 ins.	16.00
Ilex Crenata Rotundifolia (Japanese Holly), 6 to 10 ins.	16.00
Ilex Crenata Bullata, Convexa, 4 to 6 ins.	14.00
Ilex Crenata Bullata, Convexa, 6 to 8 ins.	16.00
Ilex Vomitoria Femina (Yaupon), 8 to 10 ins.	20.00

OTHER BROAD-LEAVED EVERGREENS

Euonymus Patens Sieboldi, 6 to 10 ins.	12.00
Euonymus Radicans, 6 to 10 ins.	12.00
Abelia Grandiflora, 6 to 10 ins.	15.00
Ligustrum Lucidum Compacta (Black Wax), 6 to 8 ins.	12.00
Ligustrum Lucidum Repandens (Curved-leaved), 6 to 8 ins.	12.00

Our hollies are grown from either cuttings of grafts from well-berried specimens, insuring berries for you.

TERMS: Packing without cost. 25% with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

7433 Poplar Pike
Germantown, Tenn.

ROOTED CUTTINGS

Each Each Per 100 Per 1000	
Arborvitae, Globe	\$0.09 \$0.08
Arborvitae, Green Nigra	.08 .07
Arborvitae, Pyramidal, 6 to 10 ins.	.09 .08
Juniper, Andorra, 4 to 8 ins.	.13 .12
Juniper, Irish, 4 to 8 ins.	.11 .10
Juniper, Pfitzer, 4 to 8 ins.	.13 .12
Taxus Brownii	.09 .08
Taxus Capitata (Leaders), 6 to 10 ins.	.16 .14
Taxus Cupidata, 6 to 8 ins.	.08 .07
Taxus Hicksi, 6 to 10 ins.	.09 .08
Taxus Andersoni, 5 to 8 ins.	.09 .08

1-YR. BEDS

Arborvitae, Green Nigra,
6 to 10 ins. .17 .15 || Taxus Cupidata, 6 to 10 ins. | .15 .14 |

PLANT BANDS

Arborvitae, Pyramidal	.18 .16
Juniper, Pfitzer	.22 .20
Taxus Capitata (Leaders)	.24 .22
Taxus Cupidata	.16 .15
Taxus Hicksi	.18 .16

Grafted Spruce, 2 1/2-in. pot. \$1.25 ea.

Koesters and Moerheim Blues.
50 at 100 rate. 300 at 1000 rate. Packing free. We will quote prices on quantities of 5000 or more.

DRAKE'S NURSERIES

G-4342 Branch Road Flint 6, Mich.

PINES

Pinus Strobus, White Pine, beautiful bluish, glossy green needles, 2 to 3 ft., \$25.00 per 100; 3 to 4 ft., \$25.00 per 100; 4 to 6 ft., \$50.00 per 100. Sample doz., \$5.00.
ROBINSON NURSERY CO. Greenville, Ga.

EVERGREEN LINERS

Per 100	
300 American Juniper, TTT., heavy, 12 to 15 ins.	\$75.00
300 Pyramidal Arborvitae, TTT., heavy, 12 to 15 ins.	65.00
200 Pyramidal Arborvitae, TTT., heavy, 15 to 18 ins.	75.00

B&B EVERGREENS

Each Per 100 Per 1000	
340 American Arborvitae, 2 to 3 ft.	\$2.00
150 American Arborvitae, heavy, 3 to 4 ft.	3.00
200 American Arborvitae, heavy, 4 to 4 1/2 ft.	4.00
345 Pyramidal Arborvitae, 2 to 3 ft.	2.25
110 Andorra Juniper, 15 to 18 ins.	1.50
135 Andorra Juniper, 18 to 24 ins.	2.00
46 Andorra Juniper, 2 to 3 ft.	3.00
80 Irish Juniper, 2 to 2 1/2 ft.	2.00
112 Irish Juniper, 2 1/2 to 3 ft.	2.50
800 Juniperus Glauca Hetzi, 18 to 24 ins.	2.00
100 Canadian Hemlock, 15 to 18 ins.	1.50
225 Canadian Hemlock, 18 to 24 ins.	2.25
500 Canadian Hemlock, 24 to 30 ft.	2.75
143 Canadian Hemlock, 2 1/2 to 3 ft.	3.00
100 Canadian Hemlock, 3 to 4 ft.	4.00

All choice, well-sheared stock. Visitors invited. Call 374-R in advance.

WHERRY'S NURSERIES
St. Marys, W. Va.

EVERGREEN LINERS

Each Per 100 Per 1000	
Arborvitae, Pyramid, 2 1/2-in. pot, 1-yr.	\$0.20 \$0.16 1/2
2-in. pot, 2-yr.	.20 .16 1/2
Arborvitae, Woodward Globe, 2 1/2-in. pot, 2-yr.	.25 .20
2 1/2-in. pot, 1-yr.	.20 .16 1/2
2 1/2-in. pot, 2-yr.	.20 .16 1/2
Juniperus Glauca Hetzi, 2 1/2-in. pot, 1-yr.	.20 .15
Juniperus Virginiana Burkii, 2 1/2-in. pot, 1-yr.	.27 1/2 .22 1/2
Taxus Andersoni, 2-in. pot, 1-yr.	.25 .20
Taxus Hicksi, 2 1/2-in. pot, 2-yr.	.25 .20
2 1/2-in. pot, 1-yr.	.20 .15
2 1/2-in. pot, 2-yr.	.22 .17
4-yr. field-grown	.45 .40
Taxus media, 2 1/2-in. pot, 1-yr.	.20 .15

LANDSCAPE-SIZE EVERGREENS

Each \$1.75
Pfitzer Juniper 3.00 |

Terms: Cash with order. Free packing. 300 plants of one variety at 1000 rate. Not less than 50 of a variety.

VOGE NURSERY

New Lebanon, O.

EVERGREENS

Per 100 Per 1000	
Scotch Pine, 2-0, 3 to 6 ins.	\$3.50 \$18.00
Scotch Pine, 2-0, 8 to 10 ins.	4.00 22.50
Riga Scotch Pine, 2-0, 8 to 10 ins.	3.50 22.50
Austrian Pine, 2-0, 8 to 10 ins.	3.50 20.00
Mugho Pine, 2-0, 2 to 4 ins.	3.50 20.00
3-0, 4 to 6 ins.	4.50 30.00
3-1, 4 to 6 ins.	7.00 60.00
Colorado Blue Spruce, 2-0, 2 to 4 ins.	3.50 20.00
3-0, 3 to 6 ins.	5.00 35.00
2-1, 2 to 4 ins.	5.00 35.00
Norway Spruce, 2-0, 2 to 6 ins.	3.50 20.00
2-2, 4 to 8 ins.	6.00 45.00
2-3, 8 to 10 ins.	9.00 75.00
White Spruce, 3-0, 8 to 10 ins.	4.50 25.00
Black Hills Spruce, 3-0, 2 to 4 ins.	3.50 20.00
Black Spruce, 3-0, 6 to 8 ins.	5.00 35.00
American Arborvitae, 2-1, 3 to 4 ins.	5.00 35.00

Terms: 2% cash with order. Complete list of lining-out stock and potted evergreens. Write.

JOHN G. ZELENKA

R. 2 Grand Haven, Mich.

ROOTED CUTTINGS

Per 100 Per 1000	
Ilex crenata convexa (bullata), 4 to 6 ins.	\$ 8.00 \$ 65.00
Ilex crenata convexa (bullata), 6 to 8 ins.	9.00 80.00
Taxus cupidata, 6 to 8 ins.	9.00 80.00
Taxus cupidata henryi, 6 to 8 ins.	9.00 80.00
Taxus hicksi, 6 to 8 ins.	9.00 80.00
Abelia grandiflora (northern), 6 to 8 ins.	8.50 75.00
Abelia grandiflora, 1-yr., 2 1/2-in. Rose Pots	15.00
Ilex crenata convexa (bullata), 18-in. Rose Pots	165.00
Euonymus alatus compactus, 6 to 8 ins., pot-bound	20.00 175.00
Taxus henryi, dense, quick-growing, semispreader	50.00 450.00
Taxus cupidata	50.00 450.00

Packing free for cash with order. 25 per cent deposit with all orders.

LEHIGH VALLEY NURSERIES, INC.

1745 Linden St. Bethlehem, Pa.

JUNIPER CUTTINGS

Unrooted cuttings of Pfitzer Juniper, 6 to 8 ins. long, not trimmed, \$10.00 per 1000.

Cash. Express or motor freight.

KRONE'S FLOWER SHOP

4221 Grand Ave. Fort Smith, Ark.

EVERGREEN SEEDLINGS

	Per 100	Per 1000
Riga Scotch Pine (certified), 2-0, 6 to 12 ins.	\$ 6.00	\$35.00
Tyrolean Mugho Pine (certified), 3-0, 5 to 8 ins.	10.75	51.00
Colorado Blue Spruce, seed, hand picked from blue trees, 2-0, 3 to 6 ins.	7.00	35.00
White Spruce, 3-0, 5 to 10 ins.	9.00	46.50
American Red Pine, 4-0, 10 to 15 ins.	12.25	59.75
Nikko Fir, 3-0, 4 to 8 ins.	17.50	...
Colorado Concolor Fir, seed, 2-0, 3 to 6 ins.	13.50	...
Upright Japanese Yew, from seed, 2-0, 3 to 7 ins.	18.75	...
Tyrolean Mugho Pine (certified), 3-0, very bushy, 3 to 6 ins., round	15.75	...

Parcel post prepaid. Packing free. Remittance with order.

NEUNER'S EVERGREEN NURSERY
R.D. 3 Emeworth 2, Pa.

CHOICE FINISHED EVERGREENS, B&B

	Each
150 Abies balsamea, 18 to 24 ins.	\$2.00
150 Juniperus glauca hetzi, 15 to 18 ins.	2.00
275 18 to 24 ins.	2.50
75 24 to 30 ins.	3.15
350 Taxus media hatfieldi, upright, heavy, 18 to 24 ins.	4.25
75 Taxus media hatfieldi, upright, heavy, 24 to 30 ins.	5.50
50 Thuja occidentalis, 18 to 24 ins.	1.35
25 2 to 3 ft.	1.75
50 Thuja occidentalis hetzi, Wintergreen, 2 to 3 ft.	2.25
50 Ilex glabra, 18 to 24 ins.	2.25
20 Ilex glabra, 24 to 30 ins.	3.25

All evergreens, F.O.B. Conneaut Lake, Pa. Cash with order, unless an established credit account. Your inspection invited. All material well-sheared and ready for immediate landscape use.

THORNTON NURSERIES

Conneaut Lake, Pa.

ROOTED CUTTINGS

	Per 100	Per 1000
Arborvitae, Dark Green American, 6 to 10 ins.	\$ 9.00	\$80.00
Arborvitae, Globe, 4 to 8 ins.	9.00	80.00
Arborvitae, Pyramidal, 6 to 10 ins.	9.00	80.00
Arborvitae, Siberian, 6 to 10 ins.	10.00	90.00
Arborvitae, Spiral, 6 to 10 ins.	9.00	80.00
Juniper, Andorra, 6 to 10 ins.	9.00	80.00
Juniper, Hetzi Glauca, 6 to 10 ins.	9.00	80.00
Juniper, Pfitzer, 6 to 10 ins.	10.00	90.00
Juniper, Savin, 6 to 10 ins.	9.00	80.00
Juniper, Von Ehrh, 6 to 10 ins.	9.00	80.00
Taxus Cupidata, 6 to 10 ins.	9.00	80.00
Taxus Hicksi, 6 to 10 ins.	10.00	90.00

Packing free. 25 per cent with order. Balance before delivery.

DE WINTER'S NURSERY

653 Port Sheldon Dr. Grandville, Mich.

ROOTED CUTTINGS

	Per 100
Arborvitae Pyramidalis	\$ 9.00
Ilex Convexa	8.00
Ilex Rotundifolia	8.00
Juniperus Andorra	9.00
Juniperus Communis Aurea	10.00
Juniperus Glauca Hetzi	9.00
Juniperus Pfitzeriana Compacta	12.00
Juniperus Sabina (Savin Juniper)	9.00
Taxus Andersonii	9.00
Taxus Browni	9.00
Taxus Cupidata	8.00
Taxus Hicksi	9.00
Taxus Kelsyi	9.00
Taxus Seebian's Intermedia	9.00
Taxus Wardi	10.00

Booking orders now for May shipment only. Free packing and parcel post charges prepaid. Cash with order, please.

EDWARDS EVERGREEN NURSERIES

West Lafayette, O.

EVERGREEN LINERS

	Each
7,500 Juniperus, Sylvestris	\$0.18
15,000 Irish Juniper	.15
4,000 Purple Honeycreeper	.15
5,000 Bluepire (large)	.17
10,000 Beckmans Golden Arborvitae	.18
5,000 Laurel Cherry	.15
10,000 Buxus Sempervirens	.15
2,500 White Dogwood	.15
2,000 Pyracantha, red	.15

The experience in our fields and our customers' fields has shown decisively that pot-grown liners do better under favorable or unfavorable conditions than bare-root liners. Also Verhalen outdoor-grown liners are ready at all times for planting. The price includes packing in paper pots and 100 per carton. F.O.B. Scottville, Tex.

VERHALEN NURSERY CO.

Scottville, Tex.

PFITZER JUNIPER

1-yr., field-grown liners, 6 to 12 ins., 17 1/2 c per 100; 15c per 1000.

NAUGHER NURSERY

Chase, Ala.

Please see our ad under Lining-out Stock.

ROOTED CUTTINGS, SPRING DELIVERY

	Per 100	Per 1000
Taxus Cupidata, 6 to 9 ins.	\$8.00	\$70.00
Taxus Hicksi, 6 to 9 ins.	9.00	80.00
Taxus Pyramidalis, 6 to 9 ins.	9.00	80.00
Retinospora, 5 to 6 ins.	8.00	70.00
Retinospora, Golden, 5 to 6 ins.	8.00	70.00
American Arborvitae, 6 to 9 ins.	8.00	70.00
Globe Arborvitae, 4 to 5 ins.	8.00	70.00
Pyramidal Arborvitae, 5 to 6 ins.	8.00	70.00
Juniperus Glauca Hetzi, 6 to 9 ins.	9.00	80.00
Juniperus Andorra Plumosa, 4 to 5 ins.	8.00	70.00

Cash with order, please.

NEIDEL'S NURSERY & GREENHOUSE
Mtd. Rt. 4, Haddon Heights Oil City, Pa.

EVERGREEN LINERS

	Each
Dormant in lath house	...
Ilex Rotundifolia, 1-yr., 2 1/2-in. pot	\$0.15
Juniperus Hetzi, 1-yr., 2 1/2-in. pot	.20
Biota Bakeri, 1-yr., 2 1/2-in. pot	.15
Arborvitae, Pyramidal, 1-yr., 2 1/2-in. pot	.15
Arborvitae, Globe, Woodward, 1-yr., 2 1/2-in. pot	.15

Delivery now or spring. Per 1000

Biota Bluepire, 3 to 4 ins. 60.00

Biota Bakeri Compacta, 3 to 4 ins. 60.00

Ilex Rotundifolia, 4 to 5 ins. 60.00

If in doubt of the quality, ask for samples.

JOHNSON'S NURSERY
Baxter, Tenn.

STRONG LINERS

	Each
Irish Juniper, 10 to 15 ins., 3-yr., TT.	\$0.35
Pfitzer Juniper, 10 to 15 ins., 3-yr., TT.	.50
Pyramidal Arborvitae, 8 to 12 ins., 3-yr., TT.	.45
Pyramidal Arborvitae, 12 to 15 ins., 3-yr., TT.	.55
Siberian Arborvitae, 8 to 12 ins., 3-yr., TT.	.50
Euonymus Coloratus, upright form, 12 to 15 ins., 3-yr., TT.	.30
Pieris Japonica, 8 to 10 ins., 3-yr., TT.	.50
Azalea Mollis, 3 to 12 ins., 2-yr., TT, peat-grown, under 200	.50
200 or more	.25

Center St. Perry, O.

EVERGREENS

Junipers—Columnaris, Keteleeri and Mascula. These are sheared, 3-times-transplanted trees of fine quality. B&B.

2 to 3 ft. \$3.25 3.50 2.75

3 to 3 1/2 ft. 3.75 3.50 3.25

3 1/2 to 4 ft. 4.25 4.00 3.75

4 to 4 1/2 ft. 5.25 5.00 4.75

4 1/2 to 5 ft. 6.25 6.00 5.75

No boxing. Prices F.O.B. Terre Haute.

Terms: Net cash unless satisfactory references are furnished in advance.

You are invited to inspect these.

HAAS HOME NURSERIES
29th and Poplar Sts. Terre Haute, Ind.

EVERGREENS, BED-GROWN, TT.

	Each
Osmanthus Fortunei, 15 to 18 ins.	\$0.17 1/2
Viburnum Macrophyllum, 15 to 18 ins.	.17 1/2
Viburnum Odoratissimum, 15 to 18 ins.	.17 1/2
Ilex East Palatka, 8 to 12 ins.	.17 1/2
Gardenia Fortunei, 15 to 18 ins.	.15
Elaeagnus Fruitlandi, 12 to 15 ins.	.15
Camellia Sasanqua, 12 to 18 ins.	.20
Camellia Sasanqua, 18 to 24 ins.	.25
Camellia Sasanqua, varieties, bluish and mixed	.17
Raphiolepis Indica, 4 to 6 ins., S.	.04
Crape Myrtle, 6 ft., color, white, heavy	.90

COPELAND NURSERY,
Beaufort, N. C.

PLANTS ARE EXTRA HEAVY AND READY FOR THE FIELD

	Per 100
Taxus Capitata, 10 to 12 ins., 3-yr., TT.	\$ 55.00
8 to 10 ins., 2-yr., T.	45.00
Taxus Cupidata, 8 to 10 ins., 2-yr., T.	35.00
Taxus Browni, 8 to 10 ins., 2-yr., T.	40.00
Taxus Hicksi, 8 to 10 ins., 2-yr., T.	35.00
12 to 15 ins., 6-yr., field-grown	150.00
15 to 18 ins., 6-yr., field-grown	200.00

STROHL'S NURSERY
1404 N. Anthony Fort Wayne, Ind.

CANADA HEMLOCK

	Per 100	Per 1000
Collected Seedlings, 6 to 9 ins.	\$4.00	\$20.00
9 to 12 ins.	6.00	45.00
12 to 15 ins.	8.00	65.00

These are first-quality collected seedlings, potted and packed in sphagnum moss in ventilated boxes.

Send for complete list of lining-out stock.

ISAAC LANGLEY WILLIAMS
Exeter, N. H.

LINING-OUT EVERGREEN

	Per 100
Taxus Hicksi, 1-yr., 2-in. pots	\$15.00
Taxus Hicksi, 2-yr., 2 1/2-in. pot	22.50
Taxus Cupidata, 1-yr., 2-in. pots	15.00
Taxus Cupidata, 2-yr., 2 1/2-in. pot	25.00

Order Now for Spring Delivery
FLORAL GARDENS Eaton, O.

B&B LANDSCAPE QUALITY PLANTS

	Each
500 Ligustrum Lucidum, 4 to 5 ft.	\$3.00
500 Ligustrum Lucidum, 3 to 4 ft.	2.50
300 Irish Junipers, 4 to 5 ft.	2.50
600 English Laurel, 3 to 4 ft.	3.00
100 Burford Holly, 3 to 4 ft.	5.00
200 Pfitzer Juniper, 3 to 4 ft.	3.00
500 Elaeagnus, 4 to 5 ft.	3.00
500 Nandina, 2 to 3 ft.	1.50

LIBERTY NURSERY
E. W. Rochester

Rt. 1 Greenville, S. C.

ROOTED CUTTINGS FROM GREENHOUSE

	Per 100	Per 1000
Euonymus microphyllus (Boxleaf)	\$ 7.00	\$ 60.00
Juniperus Pfitzeriana, 4 to 6 ins.	7.00	60.00
Ilex Rotundifolia, 2 to 4 ins.	7.00	60.00

OUTSIDE OPEN BEDS
Buxus Sempervirens, 4 to 6 ins. 9.00 80.00

Photinia Serrulata, 2-in. pot. 15.00 125.00

BROSEMER NURSERY
Rt. 1, Box 155 Huntsville, Ala.

JUNIPERUS PFTIZERIANA
JUNIPERUS CHINENSIS
JUNIPERUS HORVATHI

15 to 18 ins. 18 to 24 ins. 24 to 30 ins. 30 to 36 ins.

WRITE FOR OUR PRICE LIST
A. HORVATH

EVERGREEN & ROSE NURSERY
Webb Rd. Perry, O.

B&B LANDSCAPE-SIZE PLANTS

	Each
75 Arborvitae Bakeri, 3 to 4 ft.	\$1.80
25 Magnolia Grandiflora, 4 to 5 ft.	3.50
50 Magnolia Soulangiana Nigra, 3 1/2 to 4 ft.	1.95
35 Magnolia Soulangiana Alexandrina, 3 to 4 ft.	1.75
175 Juniperus Pfitzeriana, 3 to 3 1/2 ft.	1.80

20 per cent discount if dug and balled by buyer. We will not ship.

CHESTNUT DRIVE NURSERY
Wm. R. Ruppertsburg, Rt. 1, Milam Rd., Tel. 4202 Fairburn, Ga.

DOUGLAS FIR

CHRISTMAS TREE TRANSPLANTS
Douglas Fir (Pseudotsuga taxifolia glauca)

2-2, TT, 6 to 12 ins. Rocky Mountain grown, ideal Christmas tree stock for spring, 1954 delivery. \$38.00 per 1000. F.O.B. Missoula, Mont. Express charges approximately \$5.00 per 1000.

J. HOFERT CO.
Box 2348 Seattle 14, Wash.

PINUS THUNBERGI

(Japanese Black Pine)

Up to 3 ft. Also 1-yr. seedlings, \$30.00 per 1000. 2-yr. \$50.00 per 1000. 3-yr. \$100.00 per 1000.

Also have spruce, hemlock, fir, Abies concolor.

MIDDLE ISLAND NURSERIES,
Baler Lustgarten, Prop.
Middle Island, L. I., N. Y.

IRISH JUNIPER AND BAKER ARBORVITAE

	Each
18 to 24 ins. B&B.	\$1.00
2 to 3 ft. B&B.	1.25
3 to 4 ft. B&B.	1.50

PFTIZER JUNIPER, 15 to 18 ins. B&B 1.50

Write for prices on many other varieties of evergreens and nursery stock.

ROLLER'S NURSERY
Rogers, Ark.

NURSERY STOCK

	Per 1000
Andorra Juniper	\$100.00
Juniperus Hetzi Glauca	100.00
Juniperus Pfitzeriana	100.00
Taxus Cupidata	100.00
Azalea Mollis, transplants	100.00

Spring delivery.

CHARLES J. SANDERS
R. D. 1 Monongahela, Pa.

DAPHNE CNEORUM

Rock or Rose Daphne, Well-budded.

6 to 9 ins. B&B, 90c ea. 18 plants per crate

9 to 12 ins. \$1.25 ea. 12 plants per crate

12 to 15 ins. \$1.50 ea. 9 plants per crate

Order by crate only. Cash with order.

Lightweight expert crating free.

RICHARD F. RESSLER NURSERIES
Mulino, Ore.

EUONYMUS (WINTER CREEPER)

	Each
Euonymus Erectus, 8 to 10 ins., T.	\$0.20
Euonymus Erectus, 10 to 15 ins., T.	.35
Euonymus Newport, 8 to 10 ins., T.	.20
Euonymus Vegetus, 8 to 10 ins., T.	.25

All top quality. Sample upon request.

LINWORTH NURSERY
Route 1 Columbus 4, O.

BUXUS SUFFRUTICOSA (English Boxwood)

	Per 100	Per 1000
4 to 6 ins.	\$25.00	\$220.00
6 to 8 ins.	32.00	300.00

Lining-out Stock of the Better Kind
Write for Price List
GULF STREAM NURSERY, INC.
Jacques L. Legendre, Pres.
Wachapreague, Va.

EVERGREENS—Continued

JUNIPER GRAFTS
Canaerti, Glauca, Burki, Keteleeri, Chinese Mascula, Hetzi and Pfitzer, all on Virginiana understock. Price 40c each. Terms: One fourth cash with order and balance before shipping date, plus boxing charges at cost. All cash with order earns free boxing. Grafts will be in short supply again this year. Be wise and order now. Remember, when better grafts are made Crum will make them.

T. C. CRUME
NURSERY AND LANDSCAPING CO.
Hy. No. 42, Phone: Florence 233, Florence, Ky.

GROUND COVERS

VINCA MINOR, MYRTLE PERIWINKLE
Fresh-dug, individually made up. 15 to 20-cane clumps, \$50.00 per 1000. 30-cane clumps, \$90.00 per 1000.
Pachysandra, strong 1-yr., rooted, \$55.00 per 1000.
Hall's Honeysuckle, branched, \$45.00 per 1000.

H. C. WAUGH Cheshire, O.
R. D. NO. 2

PACHYSANDRA TERMINALS
Strong, 1-yr., field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS
We have very large cutting blocks listing more than 50 varieties of shrubs and trees. On account of the time necessary to process them it is urgently requested that we have your order early. We can furnish a certain amount for fall planting if we have your order soon.

Aronia melanocarpa	Per 1000
Cornus amomum	4.00
Cornus lutea (yellow bark)	6.00
Cornus paniculata	4.00
Cornus sibirica	5.00
Dierilla trifida	4.00
Elder, canadensis	4.00
Elder, Cutleaf	4.00
Elder, Golden	6.00
Elder, red-berried	6.00
Forsythia intermedia	4.00
Forsythia ovata	4.00
Forsythia prunifolia	4.00
Forsythia spectabilis	4.00
Honeysuckle, bella albidia	4.00
Honeysuckle, bella rosea	4.00
Honeysuckle, korolkowi	5.00
Honeysuckle, morrowi	4.00
Honeysuckle, tat. rosea	5.00
Honeysuckle, sabell	5.00
Hydrangea A.G.	5.00
Hydrangea P.G.	5.00
Juniper, Andorra	15.00
Juniper Pfitzer	15.00
Juniper, Savin	15.00
Lilac, rothomagensis	5.00
Philadelphus Amalthee	4.00
Philadelphus Bouquet blanc	4.00
Philadelphus grandiflorus	4.00
Philadelphus lemoinei	5.00
Philadelphus Mt. Blanc	4.00
Physocarpus opulifolius aureus	4.00
Physocarpus opulifolius nanus	5.00
Poplar, Lombardy	4.00
Privet, Amur	4.00
Privet, Itoha	4.00
Snowberry, white	4.00
Sorbaria sorbifolia	4.00
Spiraea billardii	4.00
Spiraea foebell	4.00
Spiraea thunbergii	4.00
Spiraea trichocarpa	4.00
Spiraea vanhouttei	4.00
Taxus canadensis	15.00
Taxus cuspidata	15.00
Thuja globosa	15.00
Thuja pyramidalis	15.00
Thuja, Siberian	15.00
Viburnum dentatum	4.00
Willow, dwarf Arctic	4.00
Willow, Niobe	4.00

Packed free. Cash with order, please.
Delivery in good order guaranteed.
SCOTCH GROVE NURSERY
Scotch Grove, Ia.

HARDY PLANTS

HARDY FIELD-GROWN PERENNIALS
Anchusa myosotidiflora; Aquilegia, separate colors; Aralia; Artemisia; Aubrietia; Campanula; Carnations; Chives; Dianthus; Bleeding Hearts; Digitalis; Gaillardia; Geum; Iberis sempervirens; Liatris; Russell Lupine; Myosotis; Phlox subulata, 10 varieties; Primroses; Pyrethrum; Daisies; Shasta; Esther Reed; Scabiosa; Isaac House; Sedum, 19 varieties; Sweet Williams; Thymes; Violas and Violets.

If you haven't received our list, send for it now. 100 more good varieties. Orders taken now for early spring delivery. All plants fresh dug for each order.

GEORGE FRANK & SON
Penfield, N. Y.

PERENNIALS
New and standard kinds.
New wholesale list now ready.
CARROLL GARDENS
Box 15 Westminister, Md.

HARDY FIELD-GROWN PERENNIALS

Freshly Dug, Late Dormant Season.

	Per 100
Astilbe Rosea, 2-yr., T.	\$14.00
Aconitum Wilsoni, 2-yr.	12.00
Aquilegia Crimon, 2-yr.	8.00
Aquilegia Mrs. Scott Elliot, 1-yr.	6.00
Aquilegia Chrysantha Silver Queen, 2-yr.	12.00
Aquilegia Chrysantha Silver Queen, 1-yr.	8.00
Aquilegia Crimon Star, 1-yr.	8.00
Aquilegia Longissima, 2-yr.	12.00
Dianthus Spring Beauty, 1-yr.	6.00
Platyodon Mariesi, blue, 2-yr.	12.00
1-yr.	7.00
double blue, 2-yr.	12.00
double blue, 1-yr.	7.00
pink, 2-yr.	12.00
Viola Arkwright Ruby, 1-yr.	5.00
Viola Chantreyland-Apricot, 1-yr.	5.00
Chrysanthemum Conqueror, 1-yr.	6.00

Cash, please.
J. J. NIGARD NURSERY
Herbster, Wis.

HARDY PLANTS

25 plants of a kind at 100 rate.
Euonymus Radicans Erectus, potted liners, \$12.00 per 100; 300 and up, \$10.00 per 100; 1-yr. field, \$25.00 per 100; 300 and up, \$22.50 per 100.
Euonymus Coloratus (Wintercreeper), potted liners, \$12.50 per 100; 300 and up, \$10.00 per 100; 1-yr. field plants, \$25.00 per 100; 300 and up, \$22.50 per 100.
Lythrum, strong, 1-yr. field plants, \$16.00 per 100; 300 and up, \$14.00; Morden Pink, numerous stems, 4 ft.; Dropmore Purple, deep purple-blue, 3 ft.; Frolic, Persian-rose, strong, 3 ft.; Robert, Carmine-rose flowers, 15 ins.
June Shasta Daisy, superb for cutting, 2 1/2 ft., potted plants, \$15.00 per 100.
Gypsophila, Rosy Veil and Pink, 18 ins., 1-yr. field plants, \$15.00 per 100.
Aquilegia (Columbine), assorted colors, 1-yr. transplants, \$12.00 per 100.

CUNNINGHAM GARDENS

Box 37 Waldron, Ind.

HARDY PLANTS

Per 100
Doronicum Caucasicum Magnificum... \$20.00
Funkia Undulata Variegata... 18.00
Helleborus Niger (Christmas-Rose)... 65.00
Gypsophila Bristol Fairy, 2-yr.... 45.00
Gypsophila Double Dutch, 2-yr.... 55.00
Gypsophila Rosy Veil, 2-yr.... 45.00
Incarvillea Delavayi (hardy Gloxinia), 2-yr.... 40.00
Primula Vera (hardy Primrose), 2-yr. 40.00
J. HENDRIKS, GROWER, Portage, Mich.

GYPSOPHILA BRISTOL FAIRY

Grafted Per doz. Per 100 Per 1000
2 1/4-in. pot plants... \$3.50 \$22.00 \$200.00
1-yr. field-grown... 35.00 300.00
25 at 100 rate; 250 at 1000 rate.
BLUE ACRE GARDENS
David L. Guenther, Prop.

Rt. 2 Piqua, O.

HEAVY, FIELD-GROWN PLANTS

Carnations, Black King, Cardinal Red, Golden Sun or mixed colors, \$7.00 per 100.
Hollyhock, Charters Double Pink, White, Yellow, Red or mixed colors, \$7.00 per 100.
NORTH POLE NURSERY
Cornucopia, Wis.

BLEEDING HEARTS

Per 100
Dicentra Spectabilis, 3 to 6-eye... \$25.00
Dicentra Spectabilis, 5 to 8-eye and up 40.00
Dicentra Eximia, 3 to 5-eye... 15.00
Dicentra Eximia, 5 to 8-eye and up... 20.00
J. HENDRIKS, GROWER, Portage, Mich.

LIATRIS PYCNOSTACHYA

(Blazing Star or Gayfeather)
Blooming-size field divisions.
\$11.00 per 100, \$95.00 per 1000. Cash.
BABCOCK GARDENS
Rt. 3, Jamestown, N. Y.

BLEEDING HEARTS

We have at present 30, 5 to 8-eye, 35c each.
125 of 3 to 5-eye, 25c each by the 100.
ROBINSON GARDENS
Scotts, Mich.
Since 1915

LYTHRUM MORDENS PINK

Per 100 Per 1000
1-yr. field-grown... \$16.00 \$140.00
Liners... 6.00 60.00
PLANE VIEW NURSERY
Newport, R. I.

America's Best Source

For Hardy Plants is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

HARDY FERNS

Ostrich, Clayton, Lady and Maidenhair, \$7.50 per 100; XX size, \$10.00 per 100.
STRAND NURSERY CO.
Taylors Falls, Minn.

FLORETUM COLORFUL GARDEN MUMS
Bred for early blooming. Frost tolerance.
Winter hardiness. Ask for catalog.
PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

Pansies, perennials and rock plants in wide variety. Send for catalog.
PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

HOLLY

THE FINEST OF THE DWARF HOLLIES
Per 100
3000 Ilex Crenata Helleri, 4 to 6 ins., 2 1/4-in. pot... \$17.50
2000 Ilex Crenata Helleri, R.C. 7.00
10,000 Ilex Crenata Convexa, R.C. 7.00
Packing free. Minimum order, 100 plants.
Cash with order please.
BUCHANAN'S NURSERY
5108 Western Blvd. Raleigh, N. C.

BURFORD HOLLY

In gallon cans.
Branched, 10 to 15 ins.
\$500 per 1000 F.O.B.
FRIERSON'S FLOWERS
Denmark, S. C.

JAPANESE HOLLY

Per 100 Per 1000
Ilex Crenata, 1-yr., S. \$ 40.00
Ilex Crenata, 2-yr., X. \$18.00 150.00
BROOKFIELD GARDENS
U.S. 46 Delaware, N. J.

HOLLY

Hardy California Cutting-Grown
English Green, 2 ins., 35c each.
English Variegated, 3 ins., 45c each.
DESCANSO DISTRIBUTORS, INC.
Pipeline at Walnut Chino, Calif.

IVIES

BALTIC IVY, Per 100
2 1/4-in. pot \$12.00
2 1/2-in. LEAF ENGLISH IVY,
2 1/4-in. pot 12.00
No charge for packing when cash accompanies order.
THE HOLLANDIA GARDENS
South Vienna, O.

BALTIC IVY, strong, clean stock. Rooted cuttings, 6c; \$55.00 per 1000. 2-in. pot, 10c; \$95.00 per 1000. Ready now. 25% down to reserve.

STRATFORD GARDENS
Russell Breese Delaware, O.

CLIMBING ENGLISH IVY
Unusual strong climber. Heavy, waxy foliage, rare. Rooted cuttings, \$25.00 per 100.
W. A. NATOP CO.
Cincinnati 29, O.

LINING-OUT STOCK

SHRUB AND EVERGREEN LINERS
In plant bands, except as noted. Packed upright in open-top crates.

Ashford Juniper, 12 to 15 ins.	Each \$0.20
Pfitzer Juniper, 6 to 8 ins.	14 1/2
8 to 10 ins.	20
10 to 12 ins.	26
field-grown, trimmed, branched, 11 to 14 ins., spread	55
8 to 11 ins., spread	40
Andorra Juniper, 8 to 10 ins.	14 1/2
Andorra Juniper, 10 to 12 ins.	20
Dwarf Pfitzer Juniper (nana), 6 to 8 ins.	22
Savin Juniper, 8 to 12 ins.	20
Von Ehr Juniper, 8 to 10 ins.	20
Narrow Irish Juniper, 8 to 12 ins.	20
Hill's Dark Green American Arborvitae	30
Juniperus virginiana burki, 6 to 8 ins.	30
Juniperus chinensis keteleeri	30
Taxus cuspidata, 6 to 8 ins., 2-yr.	20
Taxus cuspidata capitata, 6 to 8 ins., 2-yr.	20
Ilex crenata convexa (bullata), 5 to 6 ins., 2-yr.	26
Euonymus patens, small leaf	12 1/2
Forsythia, Lynwood Gold	20
Spiraea coccinea japonica	14 1/2
Pyracantha lalandi	14 1/2
Viburnum opulus nanum (Dwarf Hedge Snowball)	14 1/2
Weigela vaniceki	16 1/2
Callicarpa dichotoma (Chinese Beauty-berry), 4 to 6 ins.	12 1/2
Ligustrum sinense (Wayside Gardens variety, shiny leaf privet)	12 1/2

BARE ROOT

Euonymus coloratus, 6 to 10 ins.05
Euonymus patens, large leaf 6 to 10 ins.06
Euonymus patens, middle leaf, 6 to 8 ins.08
Blueleaf Arctic Willow, beds, br.06
Forsythia Spring Glory, 4 to 6 ins., heavy07
Golden Vicary Variegated Privet, 6 to 8 ins.05
Weigela rosea, 4 to 6 ins.06
Weigela Eva Rathke08
Weigela dwarf variegated08
All prices are at 1000 rate, 300 or more, total order. If total order is less than 300, 2c more on each plant. Book your order for spring.
McNINCH GREENHOUSES
Belt Highway and Faraon St., St. Joseph, Mo.

SURPLUS LINERS

Cash Please

The 1000 rate applies on all orders; therefore, at the SPECIAL SURPLUS PRICES following please order in multiples of 250 or more.

BUXUS SUFFRUTICOSA (Old Fashion English Boxwood). Each

rooted cuttings, extra strong.....\$0.03
CORNUS FLORIDA (White Dogwood),
 4 to 6 ins. S......02

6 to 8 ins. S......02 1/2

ILEX CORNUTA BURFORDI,
 rooted cuttings, extra strong......06 1/2

2 1/2-in. pot, well established......12

2 1/2-in. pot, well established......15

ILEX BULLATA CONVEXA,
 rooted cuttings, extra strong......05

2 1/2-in. pot, well established......12

2 1/2-in. pot, well established......15

ILEX CRENATA ROTUNDIFOLIA,
 2 1/2-in. pot, well established......15

JASMINUM FLORIDUM,
 rooted cuttings, extra strong......04

LAUROCERASUS CAROLINIANA (Laurel Cherry)
 3 to 4 ins. S......03

LIGUSTRUM IONANDRUM (Small-leaf Evergreen Privet)
 2 1/2-in. pot, well established......12

2 1/2-in. pot, well established......15

LIGUSTRUM LUCIDUM COMPACTUM,
 2 1/2-in. pot, well established......10

SPIRAEA REEVESIANA FLORE PLENO,
 2 1/2-in. pot, well established......12

SPECIAL NOTICE: Above prices are effective only as long as our surplus stock of these items last.

T. G. OWEN & SON, INC.

COLUMBUS, MISS.

FIELD-GROWN LINERS

Per 100 Per 1000

Ashford Juniper, 1-yr.,
 6 to 12 ins.\$0.12 1/2 \$0.10

Ashford Juniper, 2-yr.,
 6 to 18 ins.17 1/2 .15

Fastigiate Juniper, 1-yr.,
 6 to 12 ins.12 1/2 .10

Fastigiate Juniper, 2-yr.,
 6 to 18 ins.17 1/2 .15

Irish Juniper, 1-yr.,
 6 to 12 ins.12 1/2 .10

Irish Juniper, 2-yr.,
 6 to 18 ins.17 1/2 .15

Irish Juniper, 3-yr.,
 12 to 30 ins.20 .17 1/2

Spiny Greek Juniper, 1-yr.,
 6 to 12 ins.12 1/2 .10

Compact Pfitzer Juniper, 1-yr.,
 6 to 12 ins.17 1/2 .15

Savin Juniper, 1-yr.,
 6 to 15 ins.12 1/2 .10

Aelia Grandiflora, 1-yr.,
 6 to 8 ins.12 1/2 .10

White Dogwood, 18 to 24 ins.,
 18 to 24 ins., \$0.15, 2 to 3 ft., \$0.20.

Colors: Red, White, Pink.

We offer you well-rooted, well-grated, well-packed stock. Fifty or more plants at one hundred rate; three hundred or more at one thousand rate. No charge for packing when cash accompanies order. All orders will be appreciated and given prompt attention.

NAUGHER NURSERY

Chase, Ala.

LINING-OUT STOCK

Per 100

Aster Gollath, div.....\$ 7.00

Arctostaphylos uva-ursi, R.C..... 7.00

Caledonum capense, 2 1/2-in. pot..... 20.00

Ceanothus gloriosus impressus, pot..... 15.00

Cistus laurifolius, pot..... 14.00

Harphephyllum cafrum, pot..... 15.00

Hypericum calycinum, R.C..... 3.50

Juniperus prostrata, pot..... 17.00

Ilex burfordi and cornuta femina, R.C. 7.00

Liriodendron div..... 4.00

Magnolia grandiflora, pot..... 14.00

Pinus patula, pot..... 14.00

Pterocarya atropurpurea, sdig. 6 to 12 ins. 4.50

Sarcococca ruscifolia, pot..... 17.00

1-yr. sdig., B.R..... 8.00

Sequoia sempervirens, pot..... 15.00

Teucrium fruticans, pot..... 14.00

Viburnum lantana, 1-yr. sdig., B.R..... 7.00

All bare-root stock and rooted cuttings sent prepaid. Pot material shipped in paper pots and cartons. Cash with order.

BEE LINE NURSERY

San Dimas, Calif.

RED-LEAVED JAPANESE BARBERRY

We have a nice lot of this Barbary this season at very special prices.

Per 100 Per 1000

6 to 9 ins., 2-yr., S.....\$6.00 \$50.00

9 to 12 ins., 2-yr., S..... 7.50 65.00

Special prices on 5,000 or more.

A copy of our spring, 1954, wholesale, 76-page catalog sent on request.

THE TINGLE NURSERY CO.

Pittsfield 12, Md.

LINING-OUT STOCK

See our Classified Ad in this issue under Evergreens.

T. G. OWEN & SON, INC.

Columbus, Miss.

LINING-OUT STOCK
Quality-grown lining-out stock.
Priced per 100.

6 to 8 1/2 to 12

ins. ins.

Buxus Harlandi\$12.50 \$17.50

Buxus Japonica 12.50 17.50

Camellia Sasanqua, in variety..... 12.50 15.00

Feljoa Sellowiana 12.50 15.00

(Pineapple Guava) 10.00

Gardenia Fortunei 10.00

Gardenia Mystere 7.50 10.00

Gardenia Radicans 7.50 10.00

Ilex Cornuta Burfordi..... 17.50 20.00

Ilex Crenata Convexa..... 15.00 17.50

Ilex Crenata Rotundifolia..... 15.00 17.50

Laurel Cherry, transplanted..... 10.00

Laurel Cherry, seedlings..... 7.50

Magnolia Grandiflora 10.00 12.50

Write for our new price list, just out. Also list of container-grown stock.

Wholesale Only
BLACKWELL NURSERIES, INC.

Semmes, Ala.

LINING-OUT STOCK

Per 100

Gardenia Fortunei, 6 to 8 ins.....\$10.00

Osmanthus Fragrans (Sweet Olive)..... 10.00

6 to 8 ins..... 12.50

8 to 12 ins..... 15.00

Magnolia Nigra, 8 to 12 ins..... 25.00

Magnolia Nigra, 12 to 18 ins..... 30.00

Ilex Rotundifolia, 6 to 8 ins..... 10.00

8 to 12 ins..... 12.00

12 to 18 ins..... 15.00

FLOWERWOOD NURSERY, INC.

Rt. 1, Box 130 Mobile, Ala.

HARDY LIVE OAK—Native to small area in western Oklahoma mountains. Cultivated here 15 years. Withstood 12 below zero without injury. 4000 1-yr. seedlings, 6 to 12 ins., \$15.00 per 100; 4 to 6 ins., \$7.50 per 100.

NATIVE RED OAK—Best oak for general planting. High color at frost time, 5000 1-yr. seedlings, 6 to 12 ins., \$6.50 per 100; 4 to 6 ins., \$3.50 per 100.

YUCCA GLAUCOA—Semi-dwarf, bloom stems usually 3 to 4 ft. high. 2000 2-yr. seedlings, 12 to 18 ins., \$10.00 per 100.

NOBLE NURSERY

Noble, Okla.

LINING-OUT STOCK

Strong bed-grown plants, 1, 2 and 3-year-old liners of Chamaecyparis, Ilex, Juniperus, Ligustrum, Buxus, Taxus, Thuja, Tsuga, Viburnum and others. We are also growing about 100 acres of finished landscape materials. Write for our wholesale list of liners and finished material.

DEL-MAR-VA NURSERIES

Lincoln, Del.

PYRACANTHA COCCINEA LALANDI
 Hardy stock from selected fruiting plants. 3-in. pots, TT, 8 to 10 ins., branched, \$32.50 per 100.

Well-rooted. Spring shipment. Cash.

BABCOCK GARDENS

Rt. 3, Jamestown, N. Y.

FLORETUM OUTSIDE-GROWN LINERS
 Many scarce and rare trees, shrubs, evergreens and perennials. Ask for catalog.

PRAIRIE SOUTH WEST FLORETUM

Fall River, Kan.

MAGNOLIAS

ORIENTAL MAGNOLIAS

Strong, well-established liners from 2 1/2-in. pots.

Per 10 Per 100

Rustica Rubra\$3.00 \$25.00

Soulangeana 3.00 25.00

Stellata 3.00 25.00

Lilliflora 2.50 20.00

COTTAGE HILL NURSERY

Rt. 4, Box 130 Mobile, Ala.

ORIENTAL MAGNOLIA

Per 100

Magnolia Soulangeana, 2 1/2-in. pot.....\$30.00

Magnolia Soulangeana Nigra,
 2 1/2-in. pot 25.00

WELCH BROS. NURSERY, INC.

Wilmer, Ala.

MAGNOLIAS

25,000 Magnolia Soulangeana Nigra and Magnolia Stellata, 1 1/2 to 2 1/2 ins., 2 to 3 ft., 3 to 4 ft. Northern-grown, budded and hardy.

MIDDLE ISLAND NURSERIES

Baier Lustgarten, Prop.

Middle Island, L. I., N. Y.

PANSIES

PANSIES

Roggli Swiss mixed, field-grown, August sown, ready to bloom, \$5.00 per 1000, packed 1000 per box. Special packs for counter sales.

With litho label, 50, 20 bundles per box, \$8.00, 25, 15 carriers per box, \$5.00.

KAZOO GARDENS

Kalamazoo 33, Mich.

SWISS GIANTS

Ultra mixed, field-grown, sown last August, \$7.00 per 1000, wrapped in 50, \$8.00 per 1000.

COLONIAL GARDENS

Box 588 Kalamazoo, Mich.

PEONIES

PEONIES, FIELD-GROWN

2-year, 3 to 5-eye Per 100

Albatre, pure white\$45.00

Couronne d'Or, cream and yellow..... 45.00

Felix Crousse, fine red..... 45.00

Festiva Maxima, white, blotched..... 45.00

Gen. MacMahon, dark reddish..... 45.00

Karl Rosefield, deep crimson..... 45.00

Lady Alexandra Duff, shell-pink..... 45.00

Mona, Jules Elie, fine pink..... 45.00

Reine Hortense, rose-pink..... 45.00

Sarah Bernhardt, salmon-rose..... 45.00

J. HENDRIKS, GROWER, Portage, Mich.

GRAFTED TREE PEONIES

LAKE SAMMAMISH EVERGREEN

NURSERY

Rt. 1, Box 79 East Stanwood, Wash.

Small Ads Do Great Things in the

American Nurseryman Classified Section.

PHLOX

PHLOX SUBULATA

Also Known as Creeping Phlox

Moss Pinks and Thrift

Admiration, Dainty pink with white eye.

Alba, Pure white flowers.

Astro, Deep, orchid-rose.

Blue Hills, Showy pale blue.

Crimson Beauty, Cyclamen-red.

Sensation, Pure pink with red eye.

Prepaid prices on liners, \$5.50 per 100, \$50.00 per 1000.

Transplants from field rows, \$9.00 per 100, \$85.00 per 1000.

250 or more of one variety at 1000 rate.

Properly packed and shipped prepaid. Cash please.

TANGLEWOOD FARM

Box 336-N Clinton, S. C.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

RHODODENDRONS

RHODODENDRON

Ponticum X Catawbiensis Hybrid Seedlings.

Bushy, well-developed specimens, not named.

12 to 15 ins., \$1.25 each, 10 plants per crate

10 to 12 ins., \$1.00 ea., 15 plants per crate

8 to 10 ins., \$0.80 ea., 20 plants per crate

Strong 4-yr.-old field transplants to grow on or for store sales, 6 to 8 ins., 50c ea., 35 plants per crate.

Order by crate only. Cash with order. Lightweight expert crating free.

RICHARD P. RESSEL NURSERIES

Mulino, Ore.

RHODODENDRON FOR LANDSCAPING

Large selection of grafted named varieties. Excellent stock. Send for list.

STATE FLOWER NURSERY

Rt. 2, Box 5, Bothell, Wash.

Start Your Offer Now

in the American Nurseryman

And Watch Sales Climb.

ROSEBUSHES

ROSES

Finest quality, two-year, field-grown roses, dug and shipped fresh from our own fields.

NOTE: Our roses are tied in bundles of ten of a grade and variety. If you want us to break bundles, please add 5c per bush.

TERMS: Cash or 25% cash with order and balance C.O.D.

PRICES

No. 135c each

No. 1 1/230c each

No. 225c each

250 or more deduct 5c per plant.

Above prices F.O.B. Lindale or Tyler, Texas.

RED

Red Radiance

Ami Quinard

Rouge Mallerin

Frances Scott Key

Syracuse

E. G. Hill

Grenoble

Chas. K. Douglas

Red American Beauty

Etoile De Hollande

Grootendorst

PINK

ROSES—Continued

SPRING LIST, 1964
No BETTER Rosebushes can be had at any price. Good roses just cannot be sold any cheaper. Sold only in multiples of 10 of grade and variety. (We do not break bundles). Order now or later, our modern facilities enable us to hold stock and ship as needed.

RED	YELLOW
Poinsetta	Yellow Tailsman
Red Radiance	Numa Fay
Etoile de Hollande	Golden Charm
Syracuse	McGredy's Yellow
Rouge Mallerin	Golden Ophelia
Christopher Stone	Mrs. du Pont
Grenoble	Souer Therese
Ami Quinard	Improved du Pont
E. G. Hill	Luxembourg
Charles K. Douglas	Betty Grace Clark
Sensation	Yellow Condesa
McGredy's Scarlet	Golden Sastago
Red American Beauty	Yellow Sastago
Gen. MacArthur	POLYANTHA AND
Night	FLORIBUNDA
Mary Hart	Baby Chateau
Crimson King	Floradora
Editor McFarland	Golden Salmon
Briarcliff	Ideal
Columbia	Kirsten Poulsen
Pink Radiance	Mrs. R. M. Finch
Mrs. Chas. Bell	Red Lafayette
Betty Uprichard	Red Ripples
Shell Pink Radiance	CLIMBERS
Dainty Bess	Red American Beauty
Margaret McGredy	Blaze
The Doctor	Mary Hart
Picture	Etoile de Hollande
TWO-TONE	Paul's Scarlet
Tailsman	Red Tailsman
Preg. Hoover	Rouge Mallerin
E. N. Perkins	Red Radiance
Condesa de Sastago	Pink Radiance
WHITE	Golden Charm
White American	Mrs. du Pont
Beauty	Caledonia
Snow Queen	Tailsman
F. K. Druschki	Cecile Brunner
Caledonia	
Konigin Luise	
K. A. Viktoria	
White Radiance	

WRITE for our selection of choice patent rosebushes.
1964 PRICES: Bare root, (F.O.B. here)
WHOLESALE STAND-RED PRICES

EACH	10-50	50-500	500 up
No. 1	40c	37½c	35c
No. 1½	32c	30c	28c
No. 2	26c	24c	22c

Prepackaged, individually wrapped, paraffin-dipped and picture tag attached for 10c extra per bush.

No Charges for Boxing.
CASH with order or 25% deposit and balance C.O.D.
MARTIN'S ROSE NURSERY
P.O. Box 156 (Tel. 713) Arp, Tex.

ROSES—2-Yr., No. 1	Each
Bush Hybrid Teas	
\$6.50 per 10, \$60.00 per 100	
Ami Quinard, deep red	
Caledonia, snow-white	
Condesa de Sastago, pink	
Edith Nellie Perkins, pink	
Editor McFarland, deep pink	
Etoile de Hollande, crimson	
K. A. Viktoria, white	
Mrs. du Pont, yellow	
Preg. Hoover, yellow and red blend	
Paul's Scarlet Climber	
Patented Roses, offered in lots of 10 or more of one variety:	
Capistrano (Pat. 922)	\$1.25
Charlotte Armstrong (Pat. 465)	1.25
Chrysler Imperial (Pat. 1167)	1.50
Forty-niner (Pat. 792)	1.40
Mirandy (Pat. 632)	1.25
Mission Bells (Pat. 923)	1.25
Nocturne (Pat. 713)	1.10
Peace (Pat. 591)	1.40
Rubaiyat (Pat. 758)	1.00
San Fernando (Pat. 785)	1.00
Patented Climbers:	
Blaze (Pat. 10), red	.90
New Dawn (Pat. 1), pink	.90
Peace Climber (Pat. 932), yellow	1.40

WAYNESBORO, VIRGINIA

ROSEBUSHES
We Sell Nothing but
ROSEBUSHES
The Very EXCELLENT Service
is FREE
We grade up to standard—not down to price.
NEW LONDON ROSES
Box 876 Overton, Tex.
ROSEBUSHES
Price and quality make this your best
rose buy. A list is reserved for you—send
for it today.
MARTIN'S ROSE NURSERY
P.O. Box 156 Phone 713 Arp, Tex.

ROSES
Multiflora Japonica, de-eyed. Rooted cuttings. Ideal for understocks. Write for prices.
CHAMPION NURSERIES
Perry, O.

ROSEBUSHES

BARGAINS! BARGAINS! BARGAINS!
Our roses positively must be off land by March 15th.

OUR LOSS YOUR GAIN

Out they go at this ridiculously low price.
XXX \$32.00 per 100
No. 1 25.00 per 100
No. 1½ 22.00 per 100
No. 2 19.00 per 100
If you order less than 100 please add 5c extra per bush. DO NOT ORDER LESS THAN 10 OF GRADE AND VARIETY.
CASH WITH ORDER, PLEASE.

RED	YELLOW, cont.
Sensation	Souer Therese
Red Radiance	Luxembourg
Etoile de Hollande	Betty Grace Clark
Syracuse	Yellow Sastago
Rouge Mallerin	Golden Sastago
Poinsetta	McGredy's Yellow
Christopher Stone	Improved du Pont
Grenoble	WHITE
Ami Quinard	White American
E. G. Hill	Beauty
Francis Scott Key	Caledonia (No. 1½ and 2)
Charles K. Douglas	K. A. Viktoria
McGredy's Scarlet	Konigin Luise
American Beauty	White Radiance
General MacArthur	F. K. Druschki
Night	Snow Queen
Mary Hart	POLYANTHAS
Red Druschki	Baby Chateau
Crimson King	Cecile Brunner
Picture	Ideal
Betty Uprichard	Golden Salmon
Editor McFarland	Red Lafayette
Briarcliff	Mrs. R. M. Finch
Columbia	Red Ripples
Pink Radiance	Floradora
Mrs. Chas. Bell	CLIMBERS
Shell Pink Radiance	Blaze
Margaret McGredy	Cecile Brunner
Doctor	Tailsman
Picture	Rouge Mallerin
TWO-TONE	Red Tailsman
Countess Vandal	Red Radiance
Tailsman	Caledonia
Edith Nellie Perkins	Mrs. P. S. du Pont
Condesa de Sastago	Etoile de Hollande
YELLOW	Pink Radiance
Numa Fay	Golden Charm
Yellow Tailsman	Red American Beauty
Golden Charm	Mary Hart
Golden Dawn	K. A. Viktoria
Golden Ophelia	
Mrs. P. S. du Pont	

NEW LONDON ROSES

Box 876
Overton, Tex.

2-YEAR TIPTOP, NO. 1.
FIELD-GROWN ROSES
Prices F.O.B. Mentor, Ohio; 6 of one variety at dozen rate, 25 of one variety at 100 rate.

Each	Doz.	Per 100
Butterscotch (Pat. 613)	\$1.15	\$12.00 \$80.00
Fred Howard (Pat. 1006)	1.60	16.80 120.00
Lowell Thomas (Pat. 595)	1.25	13.20 95.00
Mme. Chiang Kai-shek (Pat. 664)	1.15	12.00 80.00
PINK HYBRID TEAS		
Capistrano (Pat. 922)	1.40	15.00 105.00
Douglas MacArthur (Pat. 581)	1.15	12.00 80.00
Hedda Hopper (Pat. 1047)	1.25	13.20 95.00
Helen Traubel (Pat. 1028)	1.75	18.00 130.00
Mission Bells (Pat. 923)	1.40	15.00 105.00
The Doctor (Pat. 586)	.85	9.50 70.00
Tom Breneman (Pat. 986)	1.25	13.20 95.00
RED HYBRID TEAS		
Etoile de Hollande	.85	9.50 70.00
Fandango (Pat. 894)	1.25	13.20 95.00
Heart's Desire (Pat. 501)	1.15	12.00 80.00
Mirandy (Pat. 632)	1.40	15.00 105.00
Will Rogers (Pat. 250)	1.00	10.80 70.00
RICOLOR HYBRID TEAS		
Countess Vandal	.85	9.50 70.00
Forty-niner (Pat. 792)	1.60	16.80 120.00
Hill Top (Pat. 525)	1.15	12.00 80.00
Peace (Pat. 591)	1.60	16.80 120.00
FLORIBUNDAS, PINK AND ROSE		
Cheerio	.85	9.50 70.00
Fashion (Pat. 789)	1.25	13.20 95.00
Glorious (Pat. 879)	1.00	10.80 70.00
Pinocchio (Pat. 484)	1.00	10.80 70.00
FLORIBUNDAS, RED & CRIMSON		
Chatter (Pat. 739)	1.00	10.80 70.00
Crimson Rosette (Pat. 901)	1.15	12.00 80.00
Floradora	.85	9.50 70.00
Frensham	1.00	10.80 70.00
Improved Lafayette	.85	9.50 70.00
Vogue (Pat. 926)	1.25	13.20 95.00
FLORIBUNDAS, YELLOW		
Goldilocks (Pat. 672)	1.00	10.80 70.00
RANUNCULUS, SALMON-ORANGE		
Carol Ann (Pat. 707)	1.00	10.80 70.00
SHRUB ROSES, RED		
Lipstick	1.15	12.00 80.00
Ming Toy (Pat. 900)	1.00	10.80 70.00
CLIMBERS, PINK		
New Dawn	1.00	10.80 70.00
CLIMBERS, RED		
Thor (Pat. 387)	1.25	13.20 95.00

No. 1½ grade available at 20 per cent discount from above prices.
TREE or STANDARD ROSES this year are the finest we have ever had. See catalog for list of varieties at \$4.00 and \$4.50 each.
THE WAYSIDE GARDENS CO.
Mentor, O.

BLAZE and PAUL'S SCARLET, No. 1 grade, \$6.00 per 10; \$50.00 per 100. Ask for special quotation on large quantities. For over 30 years a most consistent reliable source of fine, northern-grown Roses. Kindly ask for our complete list.
GERARD K. KLYN, INC.
Mentor, O.

MULTIFLORA ROSE SEEDLINGS
Thorny type for budding stock. 2 to 4 mm. caliper, \$16.00 per 1000; 4 to 6 mm. caliper, \$24.00 per 1000. All F.O.B. nursery. Can also grade to specification. Immediate or spring delivery.

FARM LANDSCAPE CO.
Box 230 Urbana, Ill.

ROSEBUSHES
2-yr. plants, grown right, graded right, packed right. Very complete assortment of varieties. Write for prices and book your requirements now.

ROSEOMONT NURSERIES
D. L. Thompson, owner Tyler, Tex.

SEEDLINGS

SEEDLINGS AND TRANSPLANTS	2-yr. Seedlings	Per 100	Per 1000
Austrian Pine, 3 to 6 in.	\$ 5.00	\$25.00
Riga Scotch Pine, 4 to 8 in.	5.00	25.00
Swiss Scotch Pine, 3 to 6 in.	4.00	20.00
American Arborvitae, 2 to 4 in.	3.00	20.00
Blue Douglas Fir, 3 to 6 in.	4.00	25.00
Colorado Blue Spruce, 2 to 4 in.	4.00	25.00
3-yr. Seedlings			
Austrian Pine, 8 to 14 in.	6.00	35.00
Norway Spruce, 8 to 12 in.	4.00	30.00
4-yr. Transplants (2-2)			
Douglas Fir, 5 to 10 in.	15.00	.....
Colorado Blue Spruce, 4 to 10 in.	15.00	.....

Cash with order, please. Packing free.

ARTHUR CASH NURSERY
Lake Shore Rd. Angola, N. Y.

SEEDLINGS
BIOTA ORIENTALIS—2-yr., bed-grown in soil prepared to produce fibrous root systems.
2-yr., 10 to 14 in., \$30.00 per 1000;
1-yr., 5 to 5 in., \$15.00 per 1000.
These are packed to reach you in first-class condition.

SOUTHERN NURSERY
Rt. 7, Box 254A Oklahoma City, Okla.

CHINESE CHESTNUT SEEDLINGS
2000 3-yr., 60c each, in bundles of 10.
50c each per 100, in bundles of 10.
For pickup only, at our shed, no delivery.
BORCHERS FARMS & NURSERY
Union Rd. Spring Valley, N. Y.

Nandinas, strong seedlings, ready for pots or beds, \$30.00 per 1000. Minimum 500. Cash, please.
Skyline Gardens, Box 3316, Birmingham, Ala.

Surplus Stock
can be easily and quickly turned into Cash
by listing it in the
American Nurseryman Classified Ads.

SEEDS

NURSERY SEEDS FOR SPRING PLANTING	Per ¼ lb.	Per lb.
Andromeda floribunda (mountain), (¼ oz., \$1.00; oz., \$3.00)		
Arborvitae, American	\$2.25 \$6.00
Arborvitae, Oriental60 1.65
Beech, European50 1.25
Broom, Multiflora (white)90 2.50
Broom, Scoparius (yellow)55 1.50
Camellia japonica90 2.50
Garden varieties80 2.25
Camellia sasanqua80 2.25
Cedrus atlantica glauca	1.65 4.50
Cupressus arizonica	1.10 3.00
Fir, Homolepis (Japanese)	1.50 4.25
Holly, Opaca, northern	2.15 6.00
Ivy, Boston80 2.25
Larch, European, fast-growing	1.70 4.75
type, fine ornamental	1.20 3.25
Larch, Golden	1.20 3.25
Larch, Japanese	2.25 6.00
Laurel, Kalmia latifolia, northern	
(¼ oz., \$1.00; oz., \$2.50)		
Locust, Black50 1.00
Locust, Honey, thornless50 1.25
Locust, Honey, thorny50 1.10
Pine, Austrian90 2.50
Pine, Japanese, Densiflora (red)90 2.50
Pine, Japanese Thunbergi (black)	1.10 3.00
Pine, Red Resinosa, Lake States	7.20 20.00
Pine, Scotch, fast-growing	
type, Central Europe, for		
ornamentals and windbreaks	1.75 5.00
Pine, White, Lake States	2.60 7.00
Rhododendron, for seedling growers,		
seed from superior named		
English varieties, blend	
(¼ oz., \$5.00)		
Rose, Multiflora, thornless	1.10 3.00
Rose, Multiflora, thorny90 2.50
Spruce, Norway, fast-growing	1.00 2.75
Spruce, Sitka, hardy type	3.60 10.00

F. W. SCHUMACHER
579 Centre St., P.O. Box 131, Jamaica Plain 30 Boston, Mass.

SHRUBS and TREES

POTTED GRAFTS FOR SPRING, 1954

	Per 100	Per 1000
Acer Palmatum Atropurpureum	\$65.00	
Acer Palmatum Atropurpureum		
Dessicatum	65.00	
Cornus Florida Alba Plena	50.00	
Cornus Florida Pendula	50.00	
Cornus Florida Rubra	50.00	
Cornus Florida Rubra Prosser	65.00	
Cryptomeria Lobbi Compacta	50.00	
Magnolia Conspicua	60.00	
Magnolia Lenei	65.00	
Magnolia Rustica Rubra	65.00	
Magnolia Soulangiana	60.00	
Magnolia Soulangiana Nigra	60.00	
Magnolia Stellata	60.00	
Magnolia Stellata Waterlily	60.00	
Picea Pungens Moerheimii	100.00	
Pinus Cembra	50.00	
Pinus Parviflora Glauca	50.00	
Pinus Strobus Nana	50.00	
Pinus Strobus Pendula	50.00	
Tsuga Canadensis Heterophylla	50.00	
Tsuga Canadensis Sargentii	50.00	
Wistaria Multi-Juga Lavender	50.00	

ROOTED CUTTINGS

TRANSPLANTED IN FLATS

	Per 100	Per 1000
Azalea Hinodigiri, 4 to 6 ins.	\$15.00	\$125.00
Azalea Him-Crimson,		
4 to 6 ins.	15.00	125.00
Pieris Japonica, 4 to 6 ins.	15.00	125.00
ROOTED CUTTINGS, 1-YR., REDDED		
Euonymus Patens, 8 to 12 ins.	10.00	
Ilex Bullata, 4 to 6 ins.	10.00	85.00
Ilex Rotundifolia, 5 to 8 ins.	12.00	100.00
Ilex Crenata, 5 to 8 ins.	12.00	100.00
Juniper, Andorra, 4 to 8 ins.	12.00	100.00
Juniper, Hetz, 4 to 8 ins.	12.00	100.00
Juniper, Pfitzer, 4 to 6 ins.	12.00	100.00
Retinospora Plumosa,		
4 to 8 ins.	10.00	90.00
Retinospora Plumosa Aurea,		
6 to 8 ins.	10.00	90.00
Taxus Brevifolia, 4 to 6 ins.	10.00	90.00
Taxus Cuspidata, 4 to 6 ins.	10.00	90.00
Taxus Hatfieldi, 4 to 6 ins.	10.00	90.00
Taxus Hicksi, 4 to 6 ins.	10.00	90.00
Taxus Repandens, 4 to 6 ins.	12.00	90.00
Thuja Globosa, 4 to 8 ins.	10.00	90.00
Thuja Nigra, 4 to 6 ins.	10.00	90.00
Thuja Vervaeckiana, 5 to 8 ins.	12.00	
Viburnum Burkwoodii,		
12 to 15 ins.	50.00	
Pachysandra	4.00	35.00
1-YR. SEEDLINGS		
Acer Palmatum, 6 to 8 ins.	4.00	35.00
Cornus Florida, 6 to 15 ins.	4.00	35.00
2-YR. SEEDLINGS		
Ilex Crenata, 4 to 6 ins.	6.00	50.00
SEEDLINGS		
Balsam Fir, 3 to 5 ins.	4.00	35.00
Picea Alba, 4 to 6 ins.	3.50	25.00
Picea Excelsa, 4 to 6 ins.	3.50	25.00
Picea Pungens Glauca,		
4 to 8 ins.	4.00	35.00
Pinus Alba Mughos, 3 to 5 ins.	4.00	35.00
Pinus Strobus, 4 to 6 ins.	3.50	25.00
Pinus Sylvestris, 4 to 6 ins.	3.50	25.00
Pinus Occidentalis, 3 to 4 ins.	5.00	40.00
Thuja Orientalis, 8 to 12 ins.	3.50	30.00
Tsuga Canadensis, 3 to 4 ins.	6.00	50.00
Tsuga Caroliniana, 4 to 6 ins.	6.00	50.00
TRANSPLANTS		
Picea Excelsa, 6 to 8 ins.	6.00	50.00
Picea Excelsa, 10 to 15 ins.	15.00	140.00
Picea Pungens Glauca,		
4 to 6 ins.	7.00	60.00
Picea Alba, 6 to 8 ins.	6.00	50.00
Tsuga Canadensis, 8 to 10 ins.	10.00	90.00
Tsuga Canadensis, 8 to 10 ins.	15.00	140.00
Tsuga Canadensis, 10 to 12 ins.	20.00	190.00

VAN DINE NURSERY

Berdan Ave.

Preakness, Paterson, N. J.

LINING-OUT STOCK

	Per 100	Per 1000
All heavy, pot-grown. Fall and spring delivery.		
Deutzia Gracillia, 2-in. pot.	\$15.00	\$125.00
Juniperus Depressa Plumosa,		
2 1/2-in. pot.	20.00	185.00
Juniperus Glauca Hetzi,		
2 1/2-in. pot.	20.00	225.00
Taxus Cuspidata, 2 1/2-in. pot.	25.00	225.00
Taxus Hatfieldi, 2 1/2-in. pot.	27.50	250.00
Taxus Hicksi, 2 1/2-in. pot.	27.50	250.00
Thuja Elegansissima,		
2 1/2-in. pot.	22.50	200.00
Thuja Pyramidalis, 2 1/2-in. pot.	22.50	200.00
Thuja Vervaeckiana, 2 1/2-in. pot.	22.50	200.00
Thuja Woodwardi, 2 1/2-in. pot.	22.50	200.00

Listed items subject to prior sale. No charge for packing when cash accompanies order.

THE HOLLANDIA GARDENS

So. Vienna, O.

CLARK DWARF APPLE GRAFTS

	Per 100	Per 1000
Calloused. Can be August budded		
Ready March 15. Prepaid.	\$25.00	\$225.00

FLOWERING CRAB APPLE GRAFTS

	Per 100	Per 1000
Almey	18.00	160.00
Hopa	10.00	90.00
Red Silver	10.00	180.00
Rosy Bloom, MR-455	20.00	
Rosy Bloom, MR-455	20.00	

WHEELLOCK WILSON NURSERY

Marshalltown, Ia.

FLORETUM OUTSIDE-GROWN LINERS

Winter-Hardened, Fully Acclimated, Heavy

Roots. Not Stored, Dug Fresh on Order.

One Source Specials—Reduces Cost!

25 at 100 Rate

Per 100

Floretum Lilium Formosanum, large,

white, long-stemmed. Prolific grow-

er; blooms Aug. to Oct.

1-yr. bulbs, many bloom

(per 1000, \$25.00)

2-yr. bulbs, all bloom

(per 1000, \$35.00)

3-yr. bulbs, choice, blooming size

Regal Lily, 1-yr. bulbs, blooms July

Pyraecanthus coccinea islandi, 5 to 6 in.

9 to 11 ins.

12 to 15 ins.

Banded, strong, bushy plant.

10 to 12 ins.

Hardy Trifoliate Orange, 4 to 8 ins.

Magnolia Grandiflora, hardy stock.

4 to 6 ins.

Floretum Bald Cypress, 12 to 15 ins.

Floretum Bald Cypress, 18 ins. and up.

European Deciduous Larch, 1-yr. S.

Evergreen Yucca Filamentosa

Yucca Glauca, white-margined leaves

Evergreen Euonymus Vegetus

4 to 6 ins.

Evergreen Euonymus Vegetus

8 to 15 ins.

Nandina, red-berried edg.

Red Winterberry Holly, 8 to 12 ins.

Scarlet Berry Yaupon Holly, 4 to 8 ins.

Chittamwood, rare flowering tree,

5 to 6 ins.

Ginkgo (Maidenhair Tree), 6 to 8 ins.

Golden Chain Laburnum, 3 to 6 ins.

Weeping European Ash, 6 to 8 ins.

Rare Flowering Ash, 6 to 8 ins.

Mimosae (Pink Silk Tree), 4 to 12 ins.

Sycamore Maple, rare, 10 to 12 ins.

Amur Ginnala Maple, colorful,

6 to 8 ins.

Graph Cluster Chinarberry, 8 to 10 ins.

Big Shellbark Hickory, 8 to 12 ins.

Giant Shagbark Hickory, 8 to 12 ins.

Scaly-bark Hickory, 8 to 12 ins.

Chinese Chestnut, bl. res., 12 to 15 ins.

American Filbert (Hazelnut),

15 to 18 ins.

May Day Tree (Prunus Padius).

Native Red Oak, 1-yr. adlg.

4 to 12 ins.

White Oak (4 to 6 ins. \$3), 1 to 2 ft.

Beauty-berry (Callicarpa Dichotoma),

8 to 12 ins.

Rhamnus Cathartica (Rheinberry),

3 to 5 ins.

Scotch Broom, showy novelty,

8 to 15 ins.

Siberian Pea Shrub, 8 to 12 ins.

Boston Ivy (1-yr. \$8), 2-yr. T.

Biota Orientalis Compacta, dwarf,

3-yr., 10 to 20 ins.

2-yr., 8 to 12 ins.

1-yr. S.

Biota Orientalis Pyramidalis, 1-yr. S.

Biota Orientalis Aurea, 1-yr. S.

Colorado Blue Spruce, select, 1-yr.

Austrian Pine (Nigra), 2-yr., 4 to 6 ins.

Eastern White Pine (Strobus),

4 to 6 ins.

Eastern White Pine, 1-yr. S.

Mughe Pine, dwarf, 8 to 12 ins.

Ponderosa Bull Pine, 1-yr. S.

American Red Pine, 1-yr. S.

Riga Scotch Pine, 1-yr. S.

No packing charge—Remittance with order.

PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

LINING-OUT STOCK

Fall, 1953—Spring, 1954

	Per 100	Per 1000
500 Acer Platanoides,		
1-yr. adlg.	\$ 7.00	\$ 60.00
300 Ampelopsis Vetchi,		
1-yr. adlg.	5.50	45.00
2150 Azalea Mollis, 2-yr. T.	25.00	200.00
3500 Cornus Kousa,		
1-yr. adlg.	6.50	45.00
1000 Cotoneaster Divaricata,		
2-yr. T, 9 to 12 ins.	30.00	250.00
6000 Cydonia Japonica,		
1-yr. adlg.	4.50	35.00
1440 Euonymus Radicans,		
2-yr. T, FR.	35.00	300.00
300 Euonymus Radicans Carrieri,		
2-yr. T, FR.	35.00	300.00
500 Ginkgo Biloba,		
1-yr. adlg.	7.00	60.00
1000 Hydrangea P.G.,		
1-yr., 9 to 12 ins.	15.00	140.00
1000 Hydrangea P.G., 1-yr. T,		
12 to 15 ins. FR.	30.00	250.00
3500 Koeleruteria Fanculata,		
1-yr. adlg.	7.00	60.00
450 Picea Excelsa, 4-yr. T,		
9 to 12 ins. FR.	35.00	300.00
1000 Quercus Borealis,		
1-yr. adlg.	7.00	60.00
1500 Rosa Rugosa,		
1-yr. adlg.	5.50	45.00
1000 Rosa Rugosa, 6 to 8 ins.	8.50	75.00
1000 Rosa Rugosa,		
9 to 12 ins.	12.50	110.00
TT—Once Transplanted		
TT—Twice Transplanted		
FR—Field Row		
—Sample marked on request—		
BOULEVARD NURSERIES		
Newport, R. I.		

STOCK FOR GROWING ON

1-yr., Bedded

	Per 100	Per 1000
Ilex Convexa	\$ 20.00	\$180.00
Ilex Rotundifolia	20.00	180.00
Taxus Capitata, cutting-grown	25.00	
Taxus Capitata, S., 2-yr. T.	16.00	150.00
Taxus Capitata, S., 1-yr. T.	8.00	75.00
Taxus Cuspidata	17.50	150.00
Taxus Hatfieldi	17.50	
Taxus Hicksi	17.50	150.00
Taxus Browni	17.50	150.00
Taxus Intermedia	17.50	150.00
Taxus Andersoni	17.50	150.00
Sarcococca Hookeriana	25.00	200.00
Andromeda Japonica, pot-		
grown	15.00	125.00

Seedlings and Transplants

	Per 100	Per 1000
Acer Palmatum, 1-yr. S.	8.00	50.00
Abies Concolor, 1-yr. S.	5.00	45.00
Abies Douglasi, 2-yr. S.	4.00	35.00
Abies Fraseri, 2-yr. S.	6.00	55.00
Abies Veitchi, 2-yr. S.	6.00	50.00
Biota Orientalis, 2-yr. S.	3.50	30.00
Cornus Florida, No. 1, 1-yr. S.	6.00	50.00
Cornus Florida, No. 2, 1-yr. S.	5.00	40.00
Cornus Kousa, 1-yr. S.	7.50	70.00
Cornus Kousa Chinensis,		
1-yr. S.	8.50	80.00
Cornus Xanthocarpa, 1-yr. S.	11.00	100.00
Ilex Crenata, 1-yr. S.	4.00	35.00
Ilex Crenata, 2-yr. S.	10.00	90.00
Magnolia Glauca, 1-yr. S.	6.00	50.00
Picea Excelsa, 3-yr. S.	3.50	30.00
Picea Pungens, 2-yr. S.	3.50	30.00
Picea Pungens, 3-yr. S.	4.50	40.00
Picea Canadensis, 2-yr. S.	3.50	30.00
Picea Engelmanni, 2-yr. S.	3.50	30.00
Pinus Austriaca, 2-yr. S.	7.00	60.00
Pinus Denisiflora, 2-yr. S.	6.00	50.00
Pinus Mughos, 3-yr. S.	6.50	60.00
Pinus Sylvestris, 2-yr. S.	3.00	25.00
Pinus Sylvestris, 3-yr. S.	5.00	40.00
Pinus Strobus, 2-yr. S.	5.50	50.00
Pinus Thunbergi, 2-yr. S.	5.50	50.00
Syringa Vulgaris, 1-yr. S.	3.00	25.00
Tsuga Canadensis, 2-yr. T,		
4 to 6 ins.	9.00	80.00
3-yr. T, 6 to 9 ins.	15.00	150.00
4-yr. T, 9 to 12 ins.	20.00	200.00

Field-grown Stock, Bare Roots

	Per 100	Per 1000
Cornus Florida, 18 to 24 ins.		
heavy	60.00	500.00
Cornus Florida, 2 to 3 ft.		
heavy	80.00	750.00
Cornus Kousa, 2 to 3 ft.		
heavy	100.00	900.00
Franklinia Alatomaha,		
2 to 3 ft.	150.00	
Franklinia Alatomaha,		
3 to 4 ft.	250.00	
From Holland Import		
Rhododendron Hybrids, grafted, 1-yr. field-		
grown; all named varieties in different colors.		
\$75.00 per 100.		

Out full list of stock on demand.

VERKADE'S NURSERIES

Wayne, N. J.

NURSERY STOCK

	Per 100
Azalea Mollis, 3-yr. TT, L.O. stock.....	\$10.00
4 to 6 ins.....	15.00
6 to 8 ins.....	20.00
8 to 10 ins. bushy.....	25.00
10 to 12 ins. bushy.....	30.00
Euonymus alatus, 2-yr. T.....	20.00
Hedera Helix, 2 1/4-in. pot.....	20.00
Hedera Helix, 2-yr. R.C.....	5.00
Ligustrum Ovalifolium, 1-yr. field-grown (\$30.00 per 1000)	
Ligustrum Ovalifolium, 1-yr. field-grown, light (\$20.00 per 1000)	
Lilacs, French Hybrid, Plant Stepan, Ruhm, von Horstenstein, Michel Buechner, Hugo de Vries, Ludwig Spaeth, Pres. Grevy, Charles X, Hugo Koster, Mme. Lemoine and Charles Joy, 1-yr. buds, L.O. stock.....	25.00
1 to 2 ft. br.,.....	35.00
Buxus Sempervirens, 2 to 4 ins. R.C.....	7.50
Buxus Sempervirens, 2 to 6 ins. R.C.....	10.00
Kolkwitzia Amabilis, 1-yr. T.....	10.00
Berberis Thunbergii Atropurpurea, 1-yr. T.....	10.00
Taxus Cupidata, R.C., from frame.....	10.00
2-yr. in open field bed.....	25.00
extra heavy.....	35.00
Taxus Hickel, R.C. from frame.....	11.00
2-yr. in open field bed.....	20.00
extra heavy.....	40.00
Taxus Intermedia, R.C. from greenhouse.....	8.00
Taxus Browni, R.C. from greenhouse.....	10.00
Thuja Globosa, R.C. from greenhouse.....	10.00
1-yr. field bed.....	15.00
Ilex Glabra, 2-yr. R.C.....	10.00
2-yr. brs.: Cash with seed or on fourth year, nursery packing. Balance before shipping or C.O.D. See our ad on page 60.	
THE LITTLE MOUNTAIN VIEW NURSEY	
R.D.I., Rt. 84.....	Mentor, O.

SHRUBS and TREES—Continued

NURSERY STOCK
 1000 Acer palmatum atropurpurea, pot-grown, 1-yr., T. cuttings.
 200 Acer Faassens Black and Glasworth, purple, whips, 4 to 6 ft.
 500 Acer Faassens Black and Glasworth, purple, whips, 6 to 8 ft.
 Clematis durandii, 2-yr., T., 2 to 3 ft.
 Clematis Prince Hendrik, 2-yr., T., 2 to 3 ft.
 Cornus Kousa, pot-grown, 1-yr., T. cuttings.
 Fagus sylvatica atropurpurea, major, 1-yr., grafts, 8 to 12 ins.
 1-yr., grafts, 10 to 15 ins.
 1-yr., grafts, 12 to 20 ins.
 2-yr., grafts, 2 to 3 ft.
 Fagus sylvatica riversi pendula, 1-yr., graft, 10 to 15 ins.
 Fagus sylvatica asplenifolia, 1-yr., graft, 10 to 15 ins.
 Fagus sylvatica cuprea, graft, 18 to 24 ins.
 Rhododendron, 1-yr., grafts, field-grown, well-rooted, excellent quality, Sargent, Dr. Dresselhuys, Everestianum, Mrs. P. den Ouden, Pink Pearl, etc.
 Spiraea Anthony Waterer, 2-yr., T., all sizes.
 Spiraea vanhouttei, 2-yr., T., all sizes.
 Complete assortment of Taxus and Thuja.
 Ask for price list.
HOLLAND NURSERY PRODUCT
 P. O. Box 339, Madison Square Station
 New York 10, N. Y.

LINING-OUT STOCK
 Per 100 Per 1000
 Aronia arbutifolia
 brilliantissima,
 1-yr., edgls., 4 to 6 ins. \$ 6.00 \$ 60.00
 Deutzia gracilis, 4 to 6 ins. 6.00 60.00
 6 to 8 ins. 8.00 75.00
 1-yr., field-grown, X.,
 8 to 12 ins. 35.00
 Euonymus coloratus, R. C.,
 6 to 8 ins. 8.00 75.00
 Pleris japonica,
 1-yr., X., 3 to 5 ins. 12.00 100.00
 Pleris japonica,
 2-yr., bed-grown, XX.,
 6 to 8 ins. 25.00
 Euonymus vegetus,
 Linera, 2 to 4 ins. 8.00 75.00
 Linera, 4 to 6 ins. 10.00 90.00
 Forsythia spectabilis,
 Linera, 4 to 6 ins. 8.00 60.00
 Linera, 8 to 12 ins. 8.00 75.00
 Forsythia Spring Glory,
 Linera, 4 to 6 ins. 6.00 50.00
 Linera, 8 to 12 ins. 10.00 90.00
 Field-grown, 2 to 3 ft. 40.00
PLANE VIEW NURSERY
 Newport, R. I.

LINING-OUT STOCK
 Priced per 100
 6 to 8 to 12 to
 8 ins. 12 ins. 18 ins.
 Abelia Grandiflora, \$ 8.00 \$10.00
 Abelia Grandiflora,
 field-grown 10.00 15.00 \$20.00
 Camellia Sasanqua, varieties,
 Cleopatra and Rosen 17.50 25.00
 Grape Myrtle, Scarlet,
 field-grown 15.00 20.00
 Gardenia Myrtens, 10.00 20.00
 Ilex Cornuta Burfordi 15.00 20.00
 Ilex Cornuta Femina 15.00 20.00
 Ilex Opaca Howardi 15.00 20.00
 Ilex Cornuta Rotundifolia 15.00 17.50
 Ligustrum Japonicum,
 heavy 5.00
 Magnolia Soulangiana 25.00 35.00
 Magnolia Soulangiana,
 Nigra 25.00 35.00
 Spiraea Reevesiana, double
 white, field-grown 15.00 20.00
STEPHENS NURSERIES
 Semmes, Ala.

ATTENTION, NURSERYMEN AND LANDSCAPE ARCHITECTS IN NEW YORK AND NEW JERSEY
ROBINIA PSEUDOACACIA—(black locust or yellow locust), a handsome tree with fragrant white pealike blossoms. It is one of the fastest growing trees and thrives in a wide variety of soils. It is excellent for soil conservation, for it adds nitrogen to the soil.
 When your customers see it, they will like it as mine have. Prices, trees to be dug and hauled by buyer, each:
 1½ to 2 ins., \$2.50; 2 to 2½ ins., \$3.50
 2½ to 3 ins., \$5.00; 3 to 3½ ins., \$6.00
 If you must have trees dug by us, write for prices. No shipping.
 Hubert Van Duyne
HIDDEN VALLEY FARM NURSERY
 Millington, N. J.

VIBURNUM CARLESI
 This is the first time since the beginning of the war that we have been able to offer a batch of Viburnum carlesii seedlings. All these years we have not been able to buy any seed and still cannot buy any but can offer these seedlings because we have our own seed by this time. We are sold out of the 8 to 12-in. grade by now but still have some nice, strong seedlings with good roots in:
 Per 100 Per 1000
 Strong, 2-yr., S.,
 6 to 8 ins. \$20.00 \$175.00
 Strong, 2-yr., S.,
 4 to 6 ins. 15.00 125.00
C. HOOGENDOORN
 Turner Road Newport, R. I.

For \$3.50

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

AT 35c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by March 12.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

PINK DOGWOOD (Cornus Florida Rubra)
 Each
 30 to 35 ins. \$1.50
 24 to 30 ins. 1.25
 12 to 18 ins.75
WHITE DOGWOOD (Cornus Florida)
 2 to 3 ft.30
 18 to 24 ins.20
SILVER-LEAF MAILE
 6 to 8 ft.75
 5 to 6 ft.50
 4 to 5 ft.35
FLOWERING POMEGRANATE
 2 to 3 ft.40
 18 to 24 ins.30
BOXWOOD
 15 to 18 ins. heavy 3.00
IKE HAWKERSMITH NURSERY
 Winchester, Tenn.

FLOWERING CRAB APPLES AND PLUMS
 Patented: Crimson Brilliant; strong 2-yr. trees, \$3.50 each; 3 for \$9.75; \$35.00 per doz.
 New: 1-yr. budded Charlotte, Kingsmere, Madgeburg, Nieuwlandiana, Redford. Also numbered selections, Morden and Arnold Arboretum, 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.35; 4 to 5 ft., \$1.65.
 Older, Good: 1-yr. budded Aldenham, atrosanguinea, Hopa, Parkman, purpurea, Zumi Calocarpa, Red Silver, 8 to 4 ft., 80c; 4 to 5 ft., \$1.00; whips, 25 per cent less.
 3-yr. Transplanted: Hopa, Eley, 5 to 6 ft., \$1.25; 6 to 7 ft., \$1.50; 7 to 8 ft., \$1.75.
 Packing additional at cost. For less than 10 of a kind add 10 per cent. Shipment can be made any time.
SIMPSON ORCHARD CO.
 Box 88 Vincennes, Ind.

SHRUBS
 Per 10 Per 100
BEAUTY BUSH
 18 to 24 ins. \$5.00 \$45.00
 2 to 3 ft. 6.00 55.00
 3 to 4 ft. 6.50 60.00
 4 to 5 ft. 8.50 80.00
LILAC, ROTHOMAGENSIS,
 2 to 3 ft. 5.00 45.00
 3 to 4 ft. 6.00 55.00
 4 to 5 ft. 7.50
LILAC, FRENCH, own-root,
 (mixed varieties only),
 18 to 24 ins. 5.50 50.00
 2 to 3 ft. 7.00 65.00
 3 to 4 ft. 8.50 80.00
WHEELOCK WILSON NURSERY
 Marshalltown, Ia.

CHINESE CHESTNUTS (U. S. D. A.)
 Each
 2-yr. seedlings, 18 to 24 ins. \$0.40 per 10 \$0.35 per 100
 25 to 36 ins.60 .50
 37 to 48 ins.75 .65
CHINESE REDBUD
 3-yr., 12 to 18 ins.40 .35
 18 to 24 ins.50 .45
GRAY STONE NURSERY
 Loachapoka, Ala.

AMERICAN NURSERYMAN

LINING-OUT STOCK

Pyracantha coccinea islandi (Firethorn). Well-established plants on our roots, 2½-in. pot, \$20.00 per 100.
 Pieris Japonica (Japanese Andromeda), strong transplants, 4 to 6 ins., own roots with a small peat ball, \$12.00 per 100; \$100.00 per 1000.
 Tsuga canadensis (Hemlock), 3-yr., T., 6 to 9 ins., strong roots, good dark green color, \$15.00 per 100; \$125.00 per 1000.
 Pachysandra terminalis, strong greenhouse, rooted cuttings, \$4.00 per 100; \$35.00 per 1000.
 See display ad for grafted stock. Cash with order. No packing charges.
RUMMEL NURSERIES
 Pompton Plains 1, N. J.

MAGNOLIA GRANDIFLORA

Well-established pots, shipped now or later. Cash and no packing charge. 2½-in. pots, 4 to 10-in. plants, \$15.00 per 100, \$130.00 per 1000. 300 at 1000 rate. 2½-in. pots, 3 to 4-in. plants, \$10.00 per 100. 4-in. pots, 8 to 12-in. plants, \$25.00 per 100. Bare-root plants for spring, 1954, 6 to 12 ins., 10c; 1 to 2 ft., 15c; 2 to 3 ft., 25c; 3 to 6 ft., 50c.
 Magnolias in gal. and 4-gal. cans at nursery. Following in 2½-in. pots: Blue Mist Spirea, 6 to 12 ins., 15c. Pyracantha Coccinea, 15c; Laurel Cherry, 10c. Black Walnut trees, 6 to 8 ft., \$1.00; 125 Spiny Greek Juniper, B&B, 2 to 3 ft., \$1.75 ea.
HARWELL NURSERY
 Van Buren, Ark.

SHADE TREES

For Immediate Delivery
 Each

Flowering Willow, 5 to 6 ft. \$1.10
 6 to 7 ft. 1.50
 7 to 8 ft. 1.50
 Mimosa, 1-in. cal.30
 1½-in. cal. 1.50
 1½-in. cal. 2.00
 Eleagnus Angustifolia, 3 to 4 ft.75
 Eleagnus Angustifolia, 4 to 5 ft.75
 Packing at cost.

DALLAS NURSERIES GARDEN CENTER
 3901 Inwood Rd.
 Dallas, Tex.

TREES AND FLOWERING SHRUBS

2-yr. cutbacks (bushy) Per 1000
 2000 Philadelphus Virginialis,
 18 to 24 ins. \$150.00
 800 Philadelphus Brachybotrys,
 2 to 3 ft. 125.00
 350 Salix Purpurea Nana, 2 to 2½ ft. 150.00
 1300 Salix Purpurea Nana, 12 to 15 ins. 125.00
 3000 Salix Purpurea Nana, 9 to 12 ins. 75.00
 500 Amur River Privet, 2 to 3 ft. 100.00
 100 Populus Italica Nigra, 5 to 6 ft. 175.00
 500 Populus Italica Nigra, 4 to 5 ft. 125.00
 Packing at cost. Terms net.

ELAN MEMORIAL PARK NURSERY
 116 E. Front St. Berwick, Pa.

DEUTZIA, KOLKOWITZIA, HIBISCUS
 Extra fine, heavy, Deutzia Pride of Rochester, 5 to 6 ft. Excellent for enclosure of large area. Specially priced at \$400.00 per 1000.
 Heavy Kolkowitzia, 2 to 3 ft. at \$45.00 per 100; 3 to 4 ft. at \$60.00 per 100.
 Hibiscus syriacus, white varieties, 3 to 4 ft. at \$25.00 per 100; 4 to 5 ft. at \$35.00 per 100.
 Send for complete list of Azaleas, Evergreens, Shrubs, Trees. Quality stock at reasonable prices.

THE TANKARD NURSERIES

Exmore, Virginia

FORSYTHIA

Per 100 Per 1000
 Forsythia Spring Glory (new),
 2-yr., 18 to 24 ins. \$30.00 \$250.00
 Forsythia Lynwood Gold (new),
 1-yr., T., 2 to 4 branches,
 24 to 30 ins. 45.00 400.00
 Forsythia Lynwood Gold (new),
 strong softwood rooted cuttings,
 rooted summer, 1953. Ready
 to line over the field. 20.00 150.00
C. HOOGENDOORN
 Turner Rd. Newport, R. I.

LINING-OUT SHRUBS

Buddlei, summer lilac, 2-ins., plant hands.
 Per 100
 Charming, deep pink \$12.50
 Dubonnet, lavender 12.50
 Imperial Purple, purple 15.00
 Red Velvet, deep red 15.00
 Royal Scarlet, deep red 15.00
 Snowbank, pure white 12.50
 Ready for delivery about May 1 to 15.
 Order now for Spring Delivery.
FLORAL GARDENS
 Eaton, O.

SILVER MAPLE

(Acer dasycarpum)

Per 10 Per 100
 Transplanted, well-branched
 trees, 5 to 6 ft. \$ 9.00 \$ 85.00
 6 to 8 ft. 13.50 115.00
CUMBERLAND VALLEY NURSERIES, INC.
 313 N. Chancery St.
 McMinnville, Tenn.

CALIFORNIA PRIVET

1-yr., 10 to 18 ins., well-rooted,
 \$30.00 per 1000, bare-root.

THE HOMESTEAD NURSERY

Pemberton, N. J.

PRIVET AND POPLAR
 Ibolium Privet, 18 to 24 ins., 2-yr., heavy,
 \$130.00 per 1000.
 Amur River Privet, 12 to 30 ins., from seed,
 2-yr., \$75.00 per 1000.
 Lombardy Poplar, 2-yr., heavy, Each
 3 to 4 ft. \$0.35
 4 to 6 ft. .45
 6 to 7 ft. .60
 row-run, mostly 4 to 6 ft. .40
PAUL'S NURSERY Shelby, O.
 R.F.D. 3

PRIVET
 Amur River and Ibolium Per 100
 12 to 18 ins. \$10.00
 18 to 24 ins. 13.00
 Packing extra at cost.
 This is good strong, 2-yr. stock, grown for
 our own landscape business, cut back at
 1-yr., making strong, clean plants.
THE CLYDE NURSERY
 Clyde, O.

CHINESE ELM Per 100
 12 to 24 ins. \$ 1.50
 2 to 3 ft. 4.00
 3 to 4 ft. 7.00
 4 to 5 ft. 10.00
 Heavy Transplants Each
 5 to 6 ft. \$0.30
 6 to 7 ft. .50
 7 to 8 ft. .85
WEITZEL'S NURSERY
 North Platte, Neb.

LANDSCAPE SHRUBS
 Malus Floribunda
 (Heavy Shrub Form)
 4 to 5 ft., \$2.50 each.
 4 to 5 ft., B&B, \$4.00 each.
COTONEASTER DIVARICATA
 2 to 3 ft., \$1.00 each.
 2 to 3 ft., B&B, \$2.00 each.
W. W. BROWN NURSERY
 20 mi. west of Milwaukee, Hartland, Wis.

ABELIA GRANDIFLORA
 Heavily branched, excellent color. Grown
 on new land.
 Per 100 Per 1000
 2 to 3 ft. \$35.00 \$300.00
 3 to 4 ft. 45.00 375.00
 4 to 5 ft. 60.00 500.00
 Special discount on carload or truck lots.
CHIPOLA NURSERIES
 Marianna, Fla.

REDLEAF BARBERY
 75,000 6 to 12 ins., 2-yr. seedlings, \$40.00
 per 1000. All orders to call for 500 or more;
 special price for 5000 or more. No packing
 charge for cash with order. We have one
 of the best strains of Redleaf Barbary in
 the U. S. Members of A.A.N.
DANEGGER'S HI-WAY NURSERY, INC.
 Box 336 Milford, Del.

JAPANESE MAPLES
 (Acer Palmatum) Per 1000
 Bare root, seedlings, 18 to 24 ins. \$200.00
 12 to 18 ins. 150.00
 6 to 12 ins. 100.00
 250 or more at 1000 rate.
W. B. CLARKE & CO.
 P. O. Box 343 San Jose, Calif.

PRUNUS MARITIMA
 (Beach Plum)
 Strong 1-yr., seedlings, 100 1000
 6 to 12 ins. \$10.00 \$75.00
 2-yr., S, 12 to 18 ins. 17.50 150.00
 3-yr., T, 18 to 24 ins. 30.00 250.00
C. HOOGENDOORN
 Turner Rd. Newport, R. I.

SURPLUS STOCK
 2000 Ligustrum Regelianum, 18 to 36-in.
 spread, heavy stock. Will quote in separate
 sizes or sell whole block.
 500 Deutzia Gracilis, 10 to 12 ins.
 150 Forsythia Spectabilis, 3 to 3 1/2 ft. hvy.
BUCKLIN FRUIT FARM & NURSERIES
 Box 97 Lincroft, N. J.

EUONYMUS (Purpleleaf Winter Creeper)
 2 1/2 x 3-in. pot. \$17.50 per 100.
GOLDEN-RAIN TREE
 (Koelreuteria Paniculata)
 1-yr. old, \$15.00 per 100.
FRANK HECHT NURSERY
 318 Fleming Ave. Council Bluffs, Ia.

ABELIA GRANDIFLORA
 Strong, 8 to 15-in. liners, field-grown,
 \$15.00 per 100, \$125.00 per 1000.
GREEN NURSERIES
 Fairhope, Ala.
CHINESE ELM SHADE TREES Per 100
 4 to 6 ft. \$25.00
 6 to 8 ft. 50.00
 8 to 10 ft. 90c each; 25 at the 100 rate.
GRUNDY'S GARDENS Anton, Texas

VEGETABLE PLANTS
CABBAGE, 2000 for \$2.95.
TOMATO, 1000 for \$2.65.
ONION, 6000 for \$4.25.
PEPPER, 1000 for \$2.95.
SWEET POTATO, 1000 for \$3.95.
 Shipped by express, F.O.B. Omaha, Tex.
 Write for our complete list.
W. G. FARRIER PLANT CO.
 Box 555 Omaha, Tex.

VEGETABLE ROOTS
ASPARAGUS ROOTS
 Mary Washington, 2-yr. Plants.
 Per 1000
 1000 to 5000 plants. \$17.00
 5000 to 10,000 plants. 16.00
 10,000 plants and over. 15.00
 Approximate weight per 1000 plants,
 packed for shipment 90 lbs. No packing
 charges for cash with order. Satisfaction
 guaranteed.
PRITCHARD NURSERIES
 Rt. 4 Ottawa, Kan.

VINES
HONEYSUCKLES
 Lonicera Halliana Japonica, extra-heavy
 No. 1, 3 and 4-yr., 18 to 24-in. field plants, 3
 to 4 leads, \$40.00 per 1000; lighter grade,
 \$30.00 per 1000; sample 100, \$4.00. Ex-
 periented labor for grading and packing
 quantity orders. Immediate shipment.
ROBINSON NURSERY CO.
 Greenville, Ga.

CONCORD GRAPE CUTTINGS, \$4.00 per
 1000. F.O.B. here. Tied with wire, 100 to
 bunch. Guaranteed true to name. Cut from
 our young, thrifty vineyard, largest in Okla-
 homa.
IDEAL FRUIT FARM Stillwell, Okla.

MISCELLANEOUS
QUALITY LINERS
 Each
 Albertina Spruce, 4 to 6-in. pot. \$0.25
 Andromeda, Pieris, 4 to 6 ins. .16
 Andromeda, Pieris, 6 to 8 ins. .20
 Azalea Gumpo, 6 to 8 ins. .30
 Azalea Mollis, 6 to 8 ins. .25
 Azalea Mollis, 8 to 10 ins. .35
 Azalea Rosaeiflora, 4 to 6 ins. .25
 Canadian Hemlock, 6 to 10-in. pot. .25
 Clematis Montana Rubens, pots. .35
 Daphne Mezereum Rubra, 4 to 6 ins. .12
 6 to 8 ins. .15
 10 to 12 ins. .25
 12 to 14 ins. .30
 Heather, Carnes, T. .15
 Heather, Mediterranean Hybrid, T. .12
 Heather, Vivelli, T. .15
 Juniperus Meyer, 10 to 12 ins. TT. .40
 Juniperus Tamaricifolia, 4 to 6 ins. .15
 6 to 8 ins. .18
 6 to 8 ins. TT. .25
 Rapirolepis Ovata, T. .15
 Rhododendron Ponticum, 4 to 6 ins. T. .20
 Skimmia Japonica, T. C. 2-yr. .25
 Thuja Woodwardi Globosa, 4 to 6 ins. T. .14
 6 to 8 ins. T. .25
 8 to 10 ins. T. .17
 Viburnum Burkwoodi, 2-in. pot. .30
 Viburnum Davidi, 2 1/2-in. pot. .50
 Cash with order, please.
FOUR STAR NURSERY
 Rt. 3, Box 3529 Edmonds, Wash.

Sell Stock Quickly and Easily with
 American Nurseryman Classified Ads.

WANTED
WANTED IN QUANTITY
 Strong field-grown plants of:
 Cushion Mums, yellow, red, pink and white
 Iris Kaempferi Gold-Bound
 Iris Kaempferi Mahogany
 Rudbeckia The King
 Liners of:
 Clematis Paniculata
 Quote best price and quantities available
 on above.
KINGWOOD NURSERIES
 Mentor, O.

WANT LIST
 We need large-size field-grown Taxus
 liners. Prefer five or six-year-old plants.
 Send your list of largest Taxus liners you
 have.
CENTER ROAD NURSERY
 Alex Heinz, Prop.
 1170 So. Center Rd.
 Saginaw, Mich.

WANTED
 Quercus cerris liners; Fastigiate Male
 Ginkgo.
BEE LINE NURSERY
 San Dimas, Calif.

SUPPLIES AND SERVICES

BIRDHOUSES

WREN HOUSES
 California redwood, well constructed. Re-
 movable bottom. Place order in units of 6
 for \$6.20; 12 for \$11.90; 25 or more, 94c each.
 Sample, \$1.00 postpaid. Cash please.
BIRCHWOOD GARDENS
 Box 24 Lowell, Mich.

BURLAP

NURSERY BURLAP
 Burlap squares and sheets for baling pur-
 poses, made from selected used burlap and
 bags free of oil, smell or chemical stock. All
 vacuum machine-cleaned and holes sealed
 up. We also have a supply of open mesh
 onion bags in sheet form, measuring 33x36
 ins. Samples and prices cheerfully submitted
 on request.

STERLING BAG & BURLAP CO.
 41 Carolina St. Buffalo 1, N. Y.

FLATS

REDWOOD FLATS, K. D.
 Finest stock obtainable. Guaranteed all
 clear heart. Size 20x15x3 ins. inside measure,
 \$42.00 per 100.
 1x1-in. Cypress stakes, pointed.
 50 pcs. to bundle, 4 ft., \$3.50 per bdl.
 50 pcs. to bundle, 5 ft., \$4.50 per bdl.
 50 pcs. to bundle, 6 ft., \$5.50 per bdl.
 Ship same day. Cash with order, please.
YOHO & HOOKER, Youngstown 2, Ohio

FLATS

MINNESOTA WHITE CEDAR FLATS

Per 100
 No. 1, 14x20x2 1/2 \$24.00
 No. 2, 14x20x3 1/2 27.75
 No. 3, 12x16x2 1/2 18.50
 No. 4, 12x16x3 1/2 21.75
 No. 5, 14x16x2 1/2 20.75
 No. 6, 14x16x3 1/2 24.50
 No. 7, 15x22x2 1/2 27.25
 No. 8, 15x22x3 1/2 31.50
 No. 9, 11 1/4 x22x2 1/2 23.00
 No. 10, 11 1/4 x22x3 1/2 26.00
 No. 11, 13 1/2 x16x5 1/2 30.00
 No. 12, 5x5x11 16.00
 No. 13, 5x5x16 18.50
 All other sizes quoted on request.

5 per cent discount on orders of 1000 or
 more.

The above sizes are inside. Bottoms and
 sides are 3/4-in. and ends are 3/4-in. thick.
 All material surfaced on one side. All ship-
 ments by trucks unless otherwise ordered.
 Your name and address printed up to three
 lines in black, weather and waterproof ink,
 on one or both end pieces at the following
 rates: \$1.00 set up charge plus 1/4 cent per
 end piece for the first 1000 ends, 1/4 cent per
 end thereafter.

Shipped knocked-down in bundles of 25.
 F.O.B. Cook, Minn. Attach check. Order by
 number.

H. C. HILL & SONS, Cook, Minn.

FLATS
 Made from a good grade of southern Yel-
 low Pine dipped in Rot Not wood preserver
 for longer life.
 Standard specifications, inside measurements.
 18 x12x2 1/2 \$20.38 per 100
 18 x14x3 1/2 27.04 per 100
 20 x14x2 1/2 26.81 per 100
 20 x14x3 1/2 31.07 per 100
 22 x15x2 1/2 30.49 per 100
 22 x15x3 1/2 35.35 per 100
 All other sizes quoted on request. Prices
 F.O.B. Birmingham, Ala. We are manufac-
 turers, not jobbers. Our quality guaranteed.
 Prompt shipment on any quantity. Mixed
 shipments of Flats, Plant Boxes and Spray
 Boards. Write for our price list on these
 items. Attach check to order.
HIGHTOWER BOX & TANK CO.
 P. O. Box 1440
 Birmingham 1, Ala.

HAY

MARSH HAY FOR MULCHING
 Clean; no weeds. Truckloads or carloads.
KOFFER HAY CO.
 Beaver Dam, Wis.

RAFFIA

RAFFIA
 Natural and colored.
 Window display grass mats.
 Bamboo cane stakes, imported.
BERKERT, INC.
 62 Reade St. New York 7, N. Y.

LABELS

DAHLIA OR TREE LABELS		
	Priced per 1000	
3 1/2 x 5 ins., notched (not wired).....	Plain Painted	\$3.90
3 1/2 x 5 ins., wired (copper).....		3.30 4.10
POT LABELS		
4x5 ins. (cartons 1000 each)...	2.90	3.40
5x5 ins. (cartons 1000 each)...	3.10	3.70
6x5 ins. (cartons 1000 each)...	3.40	4.15
8x5 ins. (cartons 500 each)...	5.00	6.20
10x5 ins. (cartons 500 each)...	6.00	7.30
GARDEN STAKES		
	Price per carton.	
8x5 ins. (cartons 250 each)...	1.85	2.15
10x5 ins. (cartons 250 each)...	2.10	2.40
12x1 1/2 ins. (cartons 100 each)...	1.40	1.60
EVERMARK PENCILS		
The original label marker. 1 doz. 7-in. pencils per box, \$1.75.		
Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.		
"We ship the same day."		
YOH & HOOKER		
Youngstown 2, O.		

WOOD LABELS.		
Finest Grade. Smooth White Pine.		
POT LABELS.		
	Per 1000	
	Plain	Painted
4x5 ins. (1000 per carton).....	\$2.90	\$3.40
5x5 ins. (1000 per carton).....	3.10	3.70
6x5 ins. (1000 per carton).....	3.40	4.15
8x5 ins. (500 per carton).....	5.00	6.20
10x5 ins. (500 per carton).....	6.00	7.30
12x1 1/2 ins. (500 per carton).....	7.00	8.60
GARDEN LABELS.		
8x5 ins. (250 per carton).....	7.30	8.50
10x5 ins. (250 per carton).....	8.30	9.60
12x1 1/2 ins. (100 per carton).....	14.00	16.00
TREE LABELS.		
3 1/2 x 5 ins., copper-wired.....	3.40	4.20
CELLULOID LABELS.		
3x1 1/2 ins., copper-wired, per box of 100..	\$1.75	
WEATHERPROOF PENCILS.		
Each, 10c; doz., \$1.00; gross, \$10.00.		
AMERICAN FLORIST SUPPLY CO.,		
1335 W. Randolph St., Dept. N, Chicago 7, Ill.		

SOIL-TESTING SERVICE

SOIL TESTING
Soil-testing and consultation services to help you grow better crops. Rapid, accurate tests for pH, organic matter, nitrogen, phosphorus, potassium, calcium and four minor elements cost only \$5.00 per sample, or write for costs on a soil-testing consultation program.

DR. WOLF'S
AGRICULTURAL LABORATORIES
Rt. 4, Fairton Rd. Bridgeton, N. J.

SPHAGNUM MOSS

NO. 1 SPHAGNUM MOSS
Clean, long-fibered, standard bales; freight, express, or delivered by our trucks. Please price us before you buy. Satisfaction guaranteed.

WARRENS MOSS CO., Warrens, Wis.

BEST QUALITY SPHAGNUM
Burlap and wire-bound bales. Write for prices in cartons and less.

NORTH AMERICAN MOSS CO.,
610 Lincoln St. Wisconsin Rapids, Wis.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb.

STAKES

CYPRESS PLANT STAKES
50 Pieces to Bundle.
1x1-in.—3 ft., pointed.....\$2.50 per bundle
1x1-in.—4 ft., pointed..... 3.50 per bundle
1x1-in.—5 ft., pointed..... 4.50 per bundle
1x1-in.—6 ft., pointed..... 5.50 per bundle
1x1-in.—7 ft., pointed..... 7.00 per bundle
These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!
YOH & HOOKER
Youngstown, O.

HEAVY BAMBOO STAKES			
Per 100	% to % in.	% to % in.	% to 1 in.
4 ft.	\$2.88	\$3.44	\$4.24
5 ft.	3.60	4.50	5.30
6 ft.	4.32	5.16	6.36
7 ft.	5.04	6.02	7.42
8 ft.	5.76	6.88	8.48

2000 up, less 5%; 5000 up, less 10%
A. C. PATTERSON, Centertown, Ky.

STAKES, GALVANIZED HARD STEEL.
Galvanized Wire
Prices and samples sent upon request.
SCHUPP SUPPLY CO., Wilmette, Ill.

MISCELLANEOUS

MARSH HAY AND POSTS
Marsh Hay and 2-in., 3-in., 4-in., 5-in., and 6-in., Norway and White Pine Posts for sale.

ARCHIE PANETTI CO.
Rt. 4, Box 43 Waukesha, Wis.

OILS SHOW POSSIBILITIES FOR USE AS INSECTICIDES

Oils have been used as insecticides for more than 50 years, but no one has yet reported an instance in which insects have developed resistance to them. Insect resistance to some of the newer insecticides, notably DDT, however, is giving serious concern to entomologists and fruit growers alike.

"Improved types of petroleum oil sprays for pests of fruit trees appear to have a bright future as entomologists unravel the complexities of oils and their effect on insect life," said Dr. Edward H. Smith, Cornell entomologist at the experiment station at Geneva, N. Y.

"There is no doubt that the use of DDT and other new insecticides has changed the picture with respect to various pests," he continued. "In fact, some insects have almost disappeared as major problems of the fruit grower, as for example, the fruit tree leaf roller and the apple red bug."

At the same time, other pests, which have been looked upon as being of minor importance, now pose a serious threat to fruit growing, explained the station scientist. The red-banded leaf roller and the 2-spotted mite are examples in apple orchards.

Furthermore, many of the new insecticides are costly and create a health hazard to operator and consumer, whereas oil sprays measure up well in the matter of safety and economy.

"But there is little sign that the long-sought cure-all insecticide is yet in sight," declared Dr. Smith.

Further developments in the use of petroleum oils as insecticides depend upon precise specifications of particular hydrocarbons responsible for maximum insecticidal efficiency, he concluded.

THOMAS J. SHEEHAN JOINS FLORIDA EXTENSION

Ornamental horticulture service to Florida residents is being expanded with the appointment of Dr. Thomas J. Sheehan as assistant ornamental horticulturist with the University of Florida agricultural extension service.

He will assist Dr. E. W. McElwee and Jasper Joiner in working with groups of Florida people through county and home demonstration agents.

For the past 20 months he has been in charge of floriculture research at the Georgia experiment station.

Nurseryman's Library

"A Nurseryman's library is not complete without books on plants, plant propagation and plant handling."

Here are some suggestions:

PLANT BUYERS GUIDE.

Edited by Edwin F. Steffek, \$7.50.

THE GRAFTER'S HANDBOOK.

By R. J. Garner, \$4.50.

CULTIVATED CONIFERS.

By L. H. Bailey, \$13.50.

PLANT DISEASE HANDBOOK.

By Cynthia Westcott, \$8.50.

COLOR AND DESIGN FOR EVERY GARDEN.

by Orloff and Raymore, \$3.50.

AZALEAS: KINDS AND CULTURE.

by H. Harold Hume, \$4.75.

SHRUBS AND VINES FOR AMERICAN GARDENS.

by Dr. Donald Wyman, \$7.50.

HOW TO INCREASE PLANTS.

by A. C. Hottes, \$3.00.

PROPAGATION OF PLANTS.

by M. G. Kains and L. M. McQuesten, \$4.50.

NURSERY MANUAL.

by L. H. Bailey, \$5.50.

THE BOOK OF TREES.

by Alfred Hottes, \$4.00.

THE BOOK OF SHRUBS.

by Alfred Hottes, \$4.00.

ROSES OF THE WORLD IN COLOR.

by J. Horace McFarland, \$5.00.

MANUAL OF CULTIVATED PLANTS.

by L. H. Bailey, \$18.50.

MANUAL OF CULTIVATED TREES AND SHRUBS.

by Alfred Rehder, \$12.50.

TAYLOR'S ENCYCLOPEDIA OF GARDENING.

by Norman Taylor, \$5.00.

MAINTENANCE OF SHADE AND ORNAMENTAL TREES AND SHRUBS.

by P. P. Pirone, \$7.00.

SPRAY CHEMICALS AND APPLICATION EQUIPMENT.

by J. A. McClintock and W. B. Fisher, \$6.25.

DISEASES AND PESTS OF ORNAMENTAL PLANTS.

by Bernard Dodge and W. L. Rickett, \$6.00.

These books can be obtained, at the publisher's price indicated, from

AMERICAN NURSERYMAN
343 S. Dearborn St., Chicago 4, Ill.

AN ADVERTISEMENT WRITTEN BY WATSON L. BENSON IN THE INTEREST OF SENSIBLE SOIL BUILDING

How to Go Right or Wrong in Soil Conditioning

ONCE UPON A TIME there was a little boy who assured his mamma he had not been "out back of the barn smoking again."

It was literally true. He *hadn't* been back of the barn smoking. This time it was in the carriage shed. (I know this to be true for a fact. I've known the fellow for a number of years. Probably you can guess at his identity!)

Now, smoking really has nothing to do with soil conditioning. It's just that somehow the advertising of the synthetic-resin soil conditioners makes me think of that little boy and his literally truthful reply. The unexplained is often more important than the explained.

I wouldn't say it was exactly what journalists call the "crime of omission." This could cause a lot of aching backs needlessly.

Here, in this dissertation, I want only to point up the thought that "someone" omits to dwell upon the ELBOW GREASE it takes to "condition" a few feet of soil with the synthetic stuff. Have you tried it, brother?

Certainly I don't want your back to ache; yet I can promise nothing on that score because I'm afraid any guy who wants prize flowers and shrubs must limber up the back muscles a bit. The moral is that if you're going to oil up those muscles, you might as well use genuine, natural soil conditioners which really add something to the soil. More about that later.

ANOTHER little angle skimmed over lightly is the hunk of money you lay on the line for the privilege of working — and I MEAN *working* — the plastic stuff into your clay. Remember, I said clay . . . for if you have soil of any other type, chances are you won't be reading those ads anyway. (Or will you?)

A can of the most-advertised synthetic says it's suitable for "conditioning" 40 square feet of soil 6 inches deep. Costs around five bucks by mail. Honey, that's almost Five Thousand Dollars an acre! Suppose, tho, that you have a half-acre of clay in garden and lawn, and you also have \$2500. Before you spend it, stop and recall that you can make or buy a lot of compost for 2500 pesos! At the open-market price of \$55 per ton for commercial compost, you can spread 45 TONS for the 2500 bucks. (Tons!) Of course, you don't need anything like that much compost, and it's not only easier applied but also you've got something for your money — not alone conditioning values,

but nutrient, mineral and humus values as well . . . and most important of all, the vital, dynamic, *living* organisms, plus the hormones, vitamins, enzymes, and those mysterious forces of Nature, the biotic substances. Without these values you cannot grow even a weed!

For that matter, you also get more for your soil-conditioning money in ActivO . . . or in peat moss and dry peat humus; and I'll even go along on vermiculite. (Let me add that I haven't a dime invested with any producer of moss, peat or vermiculite!)

But the truth is, for either an acre or a tiny garden plot, conditioning isn't merely flocculation. It isn't merely improving friability. It's these and more, too.

OUT IN KANSAS, the synthetic only made more soil blow away. In Ohio trials, they grew more roses where manure was used as a conditioner. In a magazine I saw mention of a report from one of the state experiment stations. A synthetic under test flocculated the soil all right. But geraniums grown in it developed root rot while those grown in the untreated check plot did not. It's logical that disease might be invited. Where you have a hard-packed clay soil, low in organic matter, the synthetic may only open it up to let more disease spores in where there are no counteracting biotics; increase nitrogen loss; and depress potassium take-up. So? So now you go out and buy some fungicide to kill the disease. Then you still gotta buy some compost and minerals and what not to balance up and make the soil productive!

Get the point? Why not, instead, wisely use a true, natural conditioner-energizer in the first place? . . . Save yourself money and work and worry.

Of course, I realize that my voice is just a tiny one. Some of the plastic-material outfits are powerful critters. They gotta lotta dough. Considering the short-shoestring of the guy who's peddling ActivO, it may remind you of the old story about the flea and the elephant.

MOREOVER, I'll freely admit merit: If you can afford it, and your muscles are in trim, you may find nothing to equal, per dollar or per pound, the flocculating effects of these plastic chemicals on "problem" clay. Nor will I argue with those "miracle" cheaper synthetics which, the ads say, you need merely sprinkle on and don't have to dig in.

My point is, belabored, that you ought to spend your hard-earned soil-care money to the best advantage . . . and that if I were in your shoes and had some poor clay soil, for a test I'd spend five bucks for that most-advertised "conditioner." Then I'd buy me five or six dollars worth of ActivO. I'd lay off two plots of 40 sq. ft. each (say 5x8) side by side except for a 2-foot lane to keep those virulent ActivO organisms from helping the "synthetic plot." I'd dig them both in, six inches deep, and moisten — just like the directions for the synthetic-resin say. Finally I'd plant the two with the same amount of grass seed or beans or something. Then I'd sit back and see which won.

If you want to try this, on ANY soil, I'll give you back the dough you spent for the ActivO if it doesn't win!

IN CASE you haven't been reading this magazine regularly (and here comes some more "commercial"), ActivO is a rich, velvety, moist, black humus . . . teeming with billions of Nature's own vital organisms, enzymes, hormones, vitamins, minerals and biotic substances. It's *alive* with energy. Widely used for making rich compost quicker and easier out of all sorts of vegetable and animal wastes, it's now even more extensively used for activating mulches, stretching fertilizer, and energizing and conditioning laggard soils. Many are mixing it with their fertilizer, or applying it to seed as you would an inoculant or seed treatment. Use it with potatoes by all means! . . . You'll find it in all the progressive garden supply stores and catalogs, \$1 to \$19.95.

Writing like this, I know some people who are going to be awful mad at me. But if you're now perplexed and want to know more about ActivO . . . and genuine soil conditioning . . . and composting and such . . . drop me a postcard at P.O. Box 623, Chicago 90, Ill., and I'll see that you get the information free, no strings attached. Or better, if you'll send \$5.95, I'll see that you get promptly prepaid, a shiny polythene bag of ActivO that's good for up to 2 tons of composting, 6500 lbs. of energizing, or for applying to from 34 up to 400 bushels of seed (depending upon kind and size).

Please send now, while you're thinking about it. Have you the box and zone numbers correct? . . . P. O. Box 623, Chicago 90, Illinois.

W. L. B.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.00 per inch, each insertion.

Lines: 35c line; minimum order **\$3.50**.

HELP WANTED GARDEN CENTER MANAGER

We need a top caliber man, capable of assuming responsibility, with experience and knowledge in horticulture, insecticides, implements and allied lines, to manage a new, modern garden center now being built in metropolitan New York area. Salary and bonus arrangement. This is a permanent position with a large, growing organization. Write Box 54, care of American Nurseryman.

HELP WANTED

EXPERIENCED NURSERYMEN

One of the largest nurseries in southern California offers profitable, permanent positions to experienced nurserymen; also, to horticultural and agricultural students and graduates. Must be able to work! Security, pleasant working conditions and unlimited future for the right men. Beginning salary \$300.00 per month.

MONROVIA NURSERY CO.
P.O. BOX 196
Monrovia, Calif.

HELP WANTED

Designer-Salesman

Full-time, permanent position for nursery-landscape salesman, who has ability to both sell and draw plans, with old, established firm located in suburban Philadelphia. Fully equipped to do all forms of landscape endeavor. Application held strictly confidential.

Address Box 41,
care of American Nurseryman.

WANTED

PART INTEREST IN SMALL FLORIDA NURSERY

Willing to invest moderate sum during next few years to buy interest in Florida bulb and specialty grower-wholesaler business. Can offer immediate chance to increase sales, plus 20 years' wholesale and retail nursery experience, plus modest capital for some time. Give important facts and figures in first letter. Address Box 44, care of American Nurseryman.

HELP WANTED

EXPERIENCED PROPAGATOR

Man capable of taking complete charge of greenhouses totaling 9000 sq. ft. with oil-fired automatic heat. Also to take charge of seedbeds and frames. Must understand grafting, rooting and growing of seedlings to supply nursery of 150 acres devoted to the growing of ornamental landscape material for the wholesale trade. Must furnish references. Address Box 984, care of American Nurseryman.

HELP WANTED

Experienced, middle-aged landscape gardener needed for small nursery in Pennsylvania. Good working conditions. Position open April 1. Write stating experience and salary expected. Address Box 39, care of American Nurseryman.

HELP WANTED

PROPAGATOR

For evergreen trees and shrubs. Large range of houses. Attractive proposition. Located near Baltimore. Write to Box 46, care of American Nurseryman.

HELP WANTED

Salesman

One of the oldest and largest nurseries and landscape contracting concerns in Philadelphia now offering an exceptional opportunity and highly profitable permanent position for experienced man. Selling field and opportunity unlimited.

AMERICAN FORESTRY SERVICE CO.
Lancaster Pike and Indian Creek Rd.
Philadelphia 31, Pa.

HELP WANTED

Industrious young man to join our office staff as junior executive. Some horticultural experience preferred. An opportunity to see and learn all phases of the mail-order nursery business. Every chance for advancement if applicant has initiative, ingenuity and the will to succeed. Give full qualifications and references in first letter. Address The Wayside Gardens Co., Mentor, Ohio.

HELP WANTED

MANAGER

For plant and gift shop. Attractive shop near Baltimore requires a manager and wife. Apartment available over shop. Write to Box 45, care of American Nurseryman.

HELP WANTED

GREENHOUSE EXPERT—For orchids and plants. House provided.

FORESTER—Must be single. Bedroom apartment provided.

Both positions permanent. Private estate. Write: LORENZ, Mather Lane, Cleveland 8, O.

HELP WANTED

Experienced, energetic landscape gardener needed for private estate, or a couple to serve as gardener-handyman and cook-housekeeper. References required. Write: YBOR, 515 Highland Rd., Ithaca, N. Y.

HELP WANTED

Nurseryman of high repute desires experienced man to take charge of new garden center close to Cleveland. Must be sober, reliable and energetic. References required. A good opportunity for a good man. Write Box 52, care of American Nurseryman.

FOR SALE

Space in these columns is for sale at low cost to nurserymen who wish to dispose of property, seek positions or secure new employees. In the American Nurseryman, your advertising is directed to those whom you wish to interest at a minute fraction of the cost of contacting them in any other way. Every issue of the magazine is read by more than 8,000 of the nation's nurserymen, giving the advertiser the maximum opportunity for successful results. Next time you have a problem which may be solved in these columns, send your want ad copy to

AMERICAN NURSERYMAN
343 S. Dearborn St.
Chicago 4, Ill.

HELP WANTED

Experienced man to sell nursery stock and landscape plantings. Must have car. Salary and commission, with expense account.

Also, can use several men for landscape work. Good working conditions. High wages.

WALTER ELSNER LANDSCAPE CO.
10214 S. Bell Ave.
Chicago 43, Ill.

SITUATION WANTED

Reliable, settled man, age 43, experienced in buying, selling and drawing plans for very reputable nursery business of his own in large city of middle Atlantic state. Still going to "school of experience." Seeks position with reliable firm. Will travel or relocate. Write Box 50, care of American Nurseryman.

SITUATION WANTED

Trained and experienced landscape man, age 33, looking for connection with future. Five years' employment as foreman; also experience in estimating selling. Would consider investing some capital for partnership. Send replies to Box 51, care of American Nurseryman.

SITUATION WANTED

College graduate in horticulture desires position with large progressive firm located in the south. Some experience in propagation of ornamentals. Age 26. Address Box 56, care of American Nurseryman.

SITUATION WANTED

Young man, age 30, married, college graduate with M.S. degree in horticulture and agronomy, experienced in research, sales and management, desires position with nursery, seedsmen or related agricultural firm. Looking for something with a future. Write Box 53, care of American Nurseryman.

FOR SALE—Large production and retail nursery business offered to experienced nurseryman. Located in Washington state. Netting \$18,000 per year. \$25,000 cash will handle. Write Box 33, care of American Nurseryman.

WANT ADSDisplay: **\$4.00** per inch, each insertion.Liners: **35¢** line; Minimum order **\$3.50**.**FOR SALE****LANDSCAPE NURSERY**

Located near industrial city in southern Michigan. Well established. 12 acres of young, salable landscape material, modern home and modern equipment. Excellent location for garden center. Reasonable terms. Write Box 34, care of American Nurseryman.

FOR SALE

Well-established nursery located in a growing midwestern (Indiana) industrial city with a marketing area of over 150,000 population. Five acres of general nursery stock, sufficient equipment for operation, office and office equipment, and 6-room modern home in A-1 condition. Abundant water supply. High-class clientele. Now grossing \$25,000 a year. Priced at \$30,000. Write Box 48, care of American Nurseryman.

FOR SALE

A 47-year-old, 40-acre nursery with complete line of nursery stock. Includes nice selection of dwarf evergreens and shrubs. Natural supply of water for irrigation. Two houses and cold storage basement; also several other buildings. Located in southern Minnesota; twelve towns nearby. Priced to sell. Owner deceased. Address replies to Box 55, care of American Nurseryman.

FOR SALE

Thriving nursery business, 38 miles north of New York city in Orange county. 12 acres of salable-size stock, all varieties. Stone residence with nine rooms and bath, heated; also office and small attached greenhouse. Five-car garage with five-room apartment above. \$39,000, with terms. For further details, write:

SANFORD DURLAND
Chester, N. Y.

FOR SALE
TREE MOVERS

We have several used tree movers in 6 and 7-ft. ball capacity. These movers are used but in perfect condition.

WILLIAMS & HARVEY NURSERIES
CO.

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[Continued from page 7]

quarts of 25 per cent DDT-white oil emulsion, or one and one-half pounds of Malathion in 100 gallons of water. Application of a 6 per cent DDT-white oil spray with a mist blower provided excellent control also. These measures also gave control of the European elm scale. In connection with summer control work, it was mentioned that hatching of scale insects in 1953 in the Chicago area began May 7, and that to provide satisfactory control of the insects while in the crawler stage, sprays should be applied within the month following the hatching period.

Cottony Maple Scale. Application of a 4 per cent or a 5 per cent dormant oil spray was suggested. For control of the insects in the crawler stage any of the following can be used in 100 gallons of water: Two quarts of 25 per cent DDT-white oil emulsion, or two quarts of 25 per cent DDT emulsion, or two quarts of 25 per cent DDT-white oil emulsion plus one and one-half pounds of 15 per cent wettable Aramite (or similar miticide). The miticide was added, Mr. Herrbach said, to check a build-up in spider mite population. In 1953 in the Chicago area the first hatch of cottony maple scale was noted June 17; control sprays were applied July 14. In connection with miticides, Mr. Herrbach mentioned Aramite, Ovotran, summer oils, Dimite and Malathion, and said that choice of material is largely a matter of availability, personal preference and cost. According to available evidence, he added, all the well-known miticides are compatible with DDT emulsions and should provide satisfactory control of spider mites; in cases of severe mite infestation a second application of the miticide alone may be required to bring the spider mites under control.

Control of Aphis

Aphis. Control measures recommended for aphis include: (1) Nicotine sulphate, one pint to 100 gallons of water plus four pounds of soap; (2) one pound of 25 per cent Lindane wettable powder to 100 gallons of water, or (3) one and one-half pints of Malathion 50 per cent emulsifiable liquid, or two and one-half pounds of 25 per cent wettable powder, to 100 gallons of water.

Spruce Budworm. The control recommended was a spray application of two quarts of 25 per cent DDT emulsion to 100 gallons of water as soon as new leaf growth begins in the

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spring. This was mentioned because of a severe infestation found a short distance west of Chicago on a plantation of Colorado blue spruce and because of the possibility that this insect may become a pest of ornamentals in the midwest. Two spray applications, the first applied June 19 and the second June 29, were required to control the infestation mentioned.

Sawfly Leaf Miner on Hawthorns. The principal damage this insect causes, Mr. Herrbach said, occurs during May or June, when the leaves are unfolding. Recommended controls consist of application of one pound of 25 per cent Lindane wettable powder to 100 gallons of water, or two to four pounds of Chlor-dane 40 per cent wettable powder, about the time the leaves are expanding.

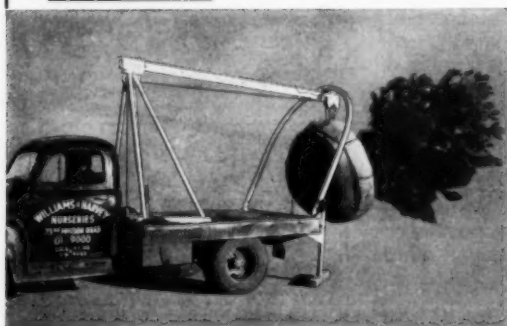
Mealy Bug on Hawthorns. This insect is becoming more abundant in the Chicago region, Mr. Herrbach said. Suggested controls consist of a spray of two pounds of 15 per cent Parathion wettable powder, or one quart of nicotine sulphate plus one gallon of summer oil applied when the young are active.

In all spray work to control sap-sucking insects Mr. Herrbach emphasized the necessity for thoroughness in application. Haphazard applications that give only partial coverage of the tree are almost useless, he warned. He pointed out that summer spraying should not be considered a replacement for dormant spraying, but rather a supplement to it.

Climate Control

"Tree Planting for Climate Control" was the subject of an excellent discussion presented by Prof. L. R. Quinlan, of Kansas State College. While there is no evidence, Professor Quinlan said, that the planting of trees can change the climate over large areas, definite proof has been developed by various research agencies that plantations modify the climate within the planted area and the adjacent neighborhood. It may be cooler by 5 degrees or more within a forest than outside its borders on a hot summer day, and warmer by about the same amount during cool summer nights, he asserted. Forests also influence soil temperature, relative humidity and wind velocity. Soil in the forests is 2 or more degrees warmer in the winter and 5 to 10 degrees cooler in the summer. The relative humidity is higher inside a forest by 3 to 12 per cent and the evaporation of moisture one third to

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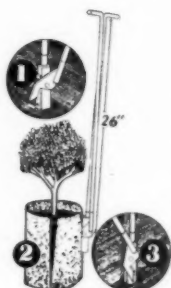
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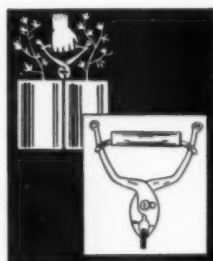
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one half less than occurs outside. At a distance of 100 feet within a forest, wind retains only 60 to 80 per cent of its outside velocity, while at 400 feet inside the forest only 7 per cent of its velocity is retained. Shelterbelt plantings, Professor Quinlan said, give protection from wind at as great a distance as 20 times the height of the trees in the planting to the leeward, and three to five times the height of the windbreak on the windward side. Well-designed shelterbelt plantings, he asserted, can reduce fuel bills by as much as 30 per cent.

Pointing out that these principles can be applied in the design of the home grounds, Professor Quinlan said that the architectural design of the house and the landscape design of the grounds must be coordinated to produce best results in planting to influence the climate. Elements that should be given consideration in the early stages of planning were listed as follows: 1. Sleeping rooms should be located to take advantage of summer breezes, and the living room should be placed adjacent to the back-yard terrace and garden. 2. The kitchen and breakfast nook should be placed where they will receive the morning sun. 3. Care should be used in choice of tree species and placement so that plantings will be most

effective in the control of both summer and winter temperatures. 4. Deciduous trees should be so placed that they will cast shade where and when it is most needed, that is, on a window, terrace, or the side of the house during the hottest part of the day. 5. Paved areas around the house should be reduced to a minimum since they reflect heat. Lawns absorb the heat, reduce glare from the sun, and the evaporation of moisture on the grass further reduces summer temperatures. 6. Evergreen trees are most effective in giving winter protection, but they should not be placed where they will shade the house in the winter.

Qualities desirable in a shade tree for the home grounds, Professor Quinlan said, include a medium size, so that the entire yard is not covered; good form, with spreading branches high enough to walk under and which will not stop summer breezes; reasonably dense, fine-textured foliage; the production of a minimum of seeds, fruits or other litter; long life; attractive fall color and interesting winter character, and light food consumption.

Elm Diseases

A panel discussion, on Dutch elm disease and elm phloem necrosis was presented by J. C. Carter, Richard



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J. Campana and L. L. English, of the Illinois Natural History Survey, Urbana. A complete picture of the situation as it exists in Illinois was presented, with Dr. Carter speaking on "Elm Phloem Necrosis," Dr. Campana on "Dutch Elm Disease" and Dr. English on "Aftermath of Spraying with DDT for Elm Phloem Necrosis."

Phloem Necrosis in 15 States

Elm phloem necrosis, a virus disease that attacks American elm, its cultivated varieties and the winged elm, is distributed over 15 states, namely, West Virginia, Ohio, Indiana, Illinois, Kentucky, Tennessee, Georgia, Alabama, Mississippi, Arkansas, Missouri, Iowa, Nebraska, Kansas and Oklahoma, Dr. Carter said. Its present northern boundary could be roughly defined by a line extending from Columbus, O., through Indianapolis and Lafayette, Ind., Peoria, Ill., and Burlington and Shenandoah, Ia. Although not identified until 1938, Dr. Carter said, elm phloem necrosis may have been responsible for the death of many elms some 60 years ago.

With reference to the disease in Illinois, Dr. Carter said that by 1940 it was widely distributed over the southern half of the state, and eight years later it reached its present northern boundary. In addition, isolated areas of infection in Illinois have been found at Melvin, Dwight, Rockford, Chebanse, Chenoa and Onarga. Dr. Carter cited epidemics in two areas in Illinois to illustrate the damage the disease can cause: At Mt. Pulaski all except 19 of 600 elms were killed within a period of six years; in the Urbana-Champaign area since 1944, when the first infected tree was found, 1,730 elms have been killed, with a yearly average loss of nearly 400 trees over the past four years.

Protective measures applied to the elms on the campus of the University of Illinois, as described by Dr. Carter, consisted of spraying twice each year with DDT to kill the leaf hopper that carries the disease from infected to healthy elms. The first spray is applied in June after the leaves are full grown, and the second in late July or early August after the mid-summer or second growth of leaves has occurred. This spray schedule was begun in 1949. Since that time 0.4 per cent of the elm trees on the campus have died of phloem necrosis, as contrasted to 14.2 per cent of the approximately 12,200 unprotected trees of the Urbana-Champaign area. Healthy trees can be protected,

Dr. Carter said, but he warned that the DDT sprays must be applied in large quantities by high-powered hydraulic or mist blower sprayers and that insofar as possible the underside of every leaf should be covered with spray deposit. Stressing this point, he added, "Success in preventing phloem necrosis depends on spraying with such absolute thoroughness that no leaf hopper bred in a diseased tree is left alive long enough to feed on a healthy tree."

Dr. Campana briefly sketched the history of the Dutch elm disease since its introduction into the United States in about 1930, stating that it is now known to be present in 21 states from New England and along the east coast to Colorado. Concerning its hosts, he said that the disease can affect all species of elm; that the American elm is highly susceptible and the Siberian and Chinese elms are somewhat resistant. Wherever it has been allowed to go unchecked, he said, Dutch elm disease has killed substantial numbers of elms in communities affected.

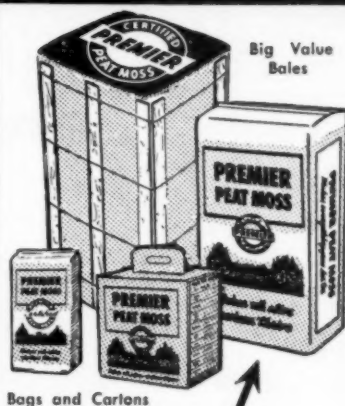
Speaking then of the disease in Illinois, he said that the first known case was found in 1950 in Coles county. In 1951, 11 infected trees were found; in 1952, 24 infected elms were discovered scattered through seven counties, and in 1953, 495 diseased trees were found distributed through 15 counties of the state. Pointing out that no systematic survey has yet been conducted in Illinois to determine the distribution of the disease, he warned that Dutch elm disease may be scattered more widely than present data indicate. In Champaign county, where inspection has been more thorough than in other areas, four infected elms were found in 1951, 17 in 1952 and 183 in 1953. This is ample evidence of the spread of the infection.

Diseases Together

Calling attention to the fact that most of the cases of Dutch elm disease have been found within the area also affected by elm phloem necrosis, Dr. Campana said that the accumulation of deadwood resulting from elm phloem necrosis provides ideal protection and breeding conditions for the elm bark beetle, carrier of the Dutch elm disease. Hence, where dead and dying elms are not removed, a rapid increase in the beetle population may be expected, and, if the Dutch elm disease is present in the community, a corresponding increase in the number of cases of disease infection may follow. Various factors make prevention of the spread of the Dutch elm disease into

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new areas almost impossible, Dr. Campana said, but he added that its rate of spread within communities affected can be greatly retarded by timely sanitation and spraying. Healthy elms can be protected through application of DDT sprays, and the population of the elm bark beetle can be reduced by removal and destruction of all dead elm wood. He expressed hope for a high degree of control of the disease in Illinois because of the fact that the bulk of the elms in the state are located in cities and villages separated by almost treeless prairies. Control depends, he asserted, upon alert detection, early removal of infected elms and judicious spraying in communities where the disease is known to be present.

With the advent of elm phloem necrosis at Urbana, spraying of the elm trees on the campus of the University of Illinois to control the insect vectors was initiated, said Dr. L. L. English, entomologist of the Illinois Natural History Survey. DDT sprays were used, he continued, to bring about control of the leaf hopper that carries phloem necrosis, and later, to control also the elm bark beetle, carrier of the Dutch elm disease. Evidence of the success of this program is found in the fact that few elms on the campus have been killed by either of these diseases; however, Dr. English said, extensive use of DDT has apparently resulted in a marked increase in the population of Putnam scale, spider mites and aphids, and these insects

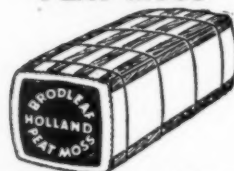
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are now causing considerable damage to the trees.

According to evidence gained through repeated examinations of trees on the campus, the DDT sprays destroyed, almost completely, scurly, oyster shell, cottony maple and European elm scale insects, but failed to harm Putnam scale. Rather, the sprays killed the predator insects which had served to prevent an infestation of this scale. Similarly, predators of the mites and aphids were killed by the DDT sprays.

Elaborating on the build-up that has occurred of Putnam scale, mites and aphids, Dr. English said that scale infestations ranged from light to moderate to heavy on sprayed trees, while on unsprayed trees nearby Putnam scale infestation was virtually nil. Mite population reached a peak of 67 mites per leaf in August on sprayed trees, while on unsprayed trees only 12 mites per leaf were found. Aphid population on sprayed trees was about three times greater than that on unsprayed trees.

Since DDT sprays are the most effective means yet known of controlling elm phloem necrosis and the Dutch elm disease and, therefore, cannot be discontinued, Dr. English advised the use of supplementary sprays to control Putnam scale, mites and aphids. On the basis of test programs conducted at the university he suggested adding Malathion or a similar miticide to the DDT foliar sprays to combat the mites and aphids.

Spray combinations suggested for the control of Putnam scale and the elm bark beetle were as follows: 1. Dendrol 4 per cent (or similar oil) mixed with DDT 2 per cent, applied with a hydraulic sprayer. 2. Dendrol 4 per cent (or similar oil), applied with a hydraulic sprayer, followed by DDT 12 per cent, applied with a mist blower. 3. Dendrol 24 per cent (or similar oil) mixed with DDT 12 per cent, or with DDT 6 per cent, applied with a mist blower. 4. Dendrol 12 per cent (or similar oil) mixed with DDT 6 per cent applied with a mist blower. The panel discussion was concluded with the presentation of an excellent movie showing the symptoms and methods of control of the Dutch elm disease.

Licensing Laws for Arborists

In his discussion of state licensing laws for arborists, Dr. Paul E. Tilford, Wooster, O., executive secretary of the National Arborist Association, said there are two types of laws presently in effect in several states regulating tree workers. One he described as a restrictive or com-



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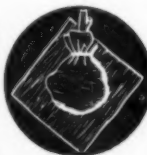


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	Per 75	Per 100	Per 500
A. 4 1/2-in. VERTICAL POT or BORDER STAKE.....	\$1.00	\$1.25	\$ 5.00
B. 2 -in. x 5-in. HORIZONTAL POT or BORDER STAKE.....	2.00	2.50	10.00
C. 6 -in. VERTICAL POT or BORDER STAKE.....	1.60	2.00	9.00
D. 2 -in. HORIZONTAL TIE on TAG.....	1.30	1.65	7.00
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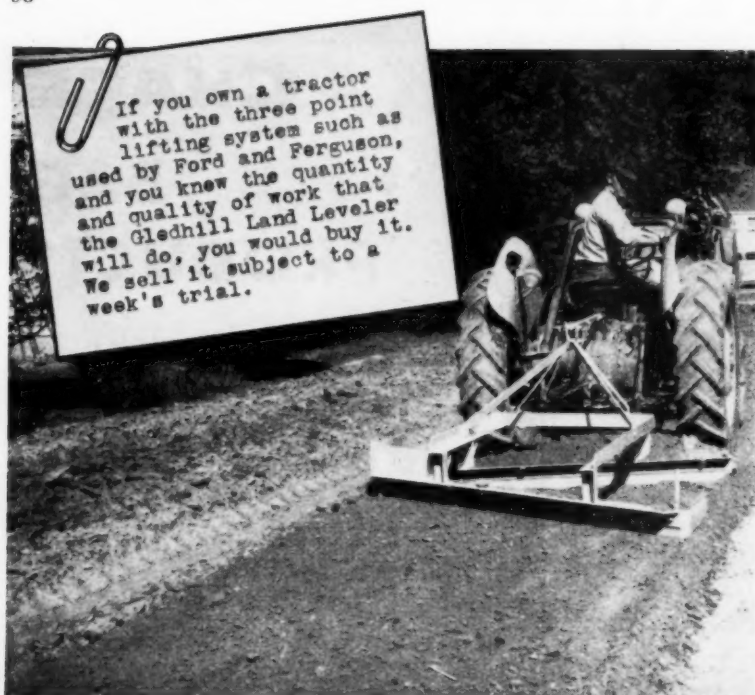
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C. 6 -in. VERTICAL POT or BORDER STAKE.....	1.60	2.00	9.00
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pulsory type of law, under which no person can legally engage in tree work without a license, and the other as a nonrestrictive type, under which compliance is a voluntary matter.

In illustration of the restrictive type of legislation, he cited the tree expert law in Connecticut and outlined its provisions. This law established a 5-member examining board composed of the botanist, entomologist and forester of the Connecticut agricultural experiment station and two other members, one of whom must be a commercial arborist or tree expert, appointed by the governor. The function of the board is to examine the qualifications of the applicant, "to improve, protect, or preserve fruit, shade, forest or ornamental trees and, if satisfied that the applicant is qualified, to issue a license so stating." Under the provisions of this law no person may treat trees in any manner, except those he owns, without having secured a license, and failure to comply with the terms of the law is punishable by a fine of not more than \$100.

Somewhat similar laws, Dr. Tilford said, have been passed in Alabama, Louisiana, Maine, New Hampshire and Rhode Island, but like measures introduced in the legislatures of a number of other states have failed to pass. Failure of these laws to pass has generally been attributed to the fact that passage of this type of law might tend to deprive persons of their means of livelihood.

Nonrestrictive Arborists' Laws

A typical nonrestrictive arborists' law, Dr. Tilford said, is the New Jersey certified tree expert law. This law makes it possible for arborists to present themselves to the public as certified tree experts after voluntarily taking and passing an examination given by members of the tree expert bureau, who are appointed by and subject to the jurisdiction of the department of conservation and development. No person is required to take this examination before engaging in tree care practices, but he is not permitted to use the title certified tree expert unless he has taken and passed the examination. This law is designed to give the trained arborist a professional standing and furnishes him with a recognized means of so labeling himself, Dr. Tilford said.

Expressing himself as being in favor of the nonrestrictive type of law for arborists, Dr. Tilford advised those who might be contemplating efforts to secure passage of such laws in their respective states that achiev-

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many, many times!



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America's complete and profitable
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ing such passage probably would require a great deal of work. He suggested that when such action is contemplated by arborists it would be advantageous to obtain all possible support from such groups as garden clubs, nurserymen's associations and florists.

Insecticide Hazards

An excellent paper on "Insecticide Hazards—Facts and Fallacies" was given by Dr. George C. Decker, entomologist, Illinois Natural History Survey, Urbana. Stating the entomologists and toxicologists seem to agree that "where proper precautionary measures are observed, no insecticide in use today is so toxic as to make its use impossible or impracticable," Dr. Decker quoted the definition of "toxicity" and "hazard" as given by the food protection committee of the National Research Council:

"Toxicity is the capacity of a substance to produce injury; hazard is the probability that injury will result from the use of the substance in the quantity and in the manner proposed."

To be at all reliable, he said, an estimate of the hazard involved in the use of any substance must be

based not only upon a knowledge of its inherent toxicity, but upon the details of its proposed use as well. He also pointed out that there are two types of hazard involved in the use of insecticides—those resulting from residues, and those encountered at the time of applying the material.

Most of the insecticides in common use, Dr. Decker said, fall into one of three general groups—the organic phosphates, the chlorinated hydrocarbons or the botanicals. Some of the organic phosphates, such as Parathion, were described as being highly toxic and presenting serious hazards at the time of application but, because of volatility, not particularly dangerous from the residue viewpoint; the chlorinated hydrocarbons, such as DDT, were described as being lower in acute toxicity, less dangerous to the sprayer operators, but more persistent and, consequently, more hazardous from the residue viewpoint; the botanicals, with the exception of nicotine, were termed relatively safe. Nicotine, Dr. Decker warned, must be regarded as one of the more deadly poisons, ranking with Parathion and hydrocyanic acid as far as hazards to man are concerned. When all factors are properly evaluated, he asserted, it is frequently found that the more toxic

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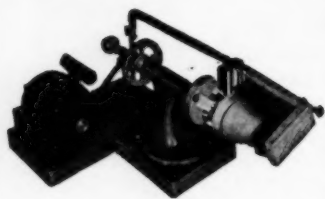


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Don't throw your dirty flower pots away—get a PRESTO



FLOWER POT WASHER

Save money. Clean your flower pots the Presto way—for less than 1c per pot. Presto removes all dirt, roots and debris inside and out in one easy operation. Has leakproof ball bearings, automatic alignment of brushes, valve-regulated water supply.

Write for Circular and Price List.

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- **PRESTO** is used by Experimental Stations of: U. S. Department of Agriculture Ontario Department of Agriculture Shell Oil Corporation
- **PRESTO** is used by Leading Colleges such as: California Institute of Technology Cornell University Iowa State College Rhode Island State College
- **PRESTO** is used by Municipal Park Departments at: Buffalo, N. Y. Oak Park, Ill. Riverside, Calif. Vancouver, B. C., Canada

PRESTO MANUFACTURING CO.
306 Saxson Rd., Dept. A • DAY VILLAGE, O.

materials are actually the safest to use.

In discussing the claims that have been made to recover damages avowedly caused by drift of insecticides to plants other than those being sprayed, Dr. Decker said that most such claims have little basis in fact, although it is often difficult to prove nonresponsibility. Similar conditions are true with regard to death or illness of either animals or humans attributed to spray drift. "With most pesticides," he said, "the margin of safety is such that animals and man can work and have worked continuously in the treated areas without mishap." He warned, however, that under no circumstance should operators become careless in the use of insecticides.

The possibility of injury to wildlife was discussed briefly, and the arborists were told that if insecticides are applied in accordance with recommended practices wildlife should not be adversely affected. However, Dr. Decker said, if an insecticide applied at the proper rate to control many crop pests is also sprayed at the same dosage over a body of water, fish and other forms of aquatic life will suffer. One-tenth pound of DDT to the acre was suggested as an effective spray for mosquitoes over marshes and swamps, yet too light a dosage to harm fish life. Five pounds of DDT per acre was suggested as about the maximum rate that can be applied without endangering a number of species of birds and wild animals.

In closing, Dr. Decker said that "in common with all of our other advances in science and technology, agricultural chemicals must be regarded with mixed feeling in that on the one hand they possess highly desirable, and, at times, almost miraculous properties for good, and on the other hand, definite objectionable or undesirable characteristics capable of producing harm. Our problem is



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A small, fully automatic, electric bench model tying machine—self-adjusting to all sizes of bundles—especially designed for tying flowers and nursery stock in bundles up to 16 ins. in circumference. It's lightweight, so simple in construction even a child can operate it. Write for illustrated folder describing SAXMAYER models serving over 100 different industries.

ALSO—NEW MODEL SRAN NOW READY!

Special Features:

- Ties shrubs and trees up to 6 to 8 ft. long by 35-in. circumference.
- Uses jute or sisal twine—fully guaranteed.

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Many now in operation by enthusiastic owners.

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Large Stocks . . . Prompt Shipments . . .
Hand Split Chestnut Rails.
Peeled Chestnut, White Cedar or Locust Posts
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6 and 8 ft. long, frame work—Northern White Cedar. Tops and seats—Western Fir.

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PROFITS For Nurserymen! YOU SELL FENCE We Carry Inventory

ALL TYPES—From large Estates to Small Homesites.
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to balance these attributes and so to control the use of these chemicals as to secure the maximum benefit and the minimum harm."

Woody Plant Materials

Speaking on woody plant materials for the home grounds, H. W. Gilbert, professor of horticulture at Purdue University, said that many factors should be given due thought in the selection of plant species for use around the home. The plant under consideration must be adapted to the climate, soil and other environmental conditions, Professor Gilbert said, and, in addition, the homeowner or landscape architect should base his selection on the following questions:

1. Will it harmonize with the general landscape composition?
2. Is it useful and attractive the year around, rather than only for a short season?
3. Will it at maturity be in scale with the house?
4. Is it to be used for its form and mass effect or for its bloom?
5. Will it harmonize with flower boxes, terraces and other closely adjacent landscape features?
6. Will it be in good relationship with the interior of the house as well as with neighboring plants?
7. Is it well adapted to its proposed specific location or use, that is, near the doorway, at the corner of the house, as a hedge or boundary plant, a specimen plant or as a complement to garden elements?

Plants should be in harmony with their surroundings, Professor Gilbert said, and added that in keeping with the trend toward small houses generally, small trees are being increasingly favored for planting on the home grounds. He added, however, that where there is abundant room large trees can be used to advantage. Excellent color slides were then presented illustrating various features of landscape design and tree and shrub species considered especially suitable for use in landscape plantings.

Public Relations

Ulmer Turner, Chicago news commentator with the American Broadcasting Co., gave the conventioners some valuable pointers on advertising and the establishment of good public relations in his interesting discussion of "Techniques of Gaining Favorable Publicity." Stressing the fact that both paid advertising and free publicity are essential to the successful operation of any business, Mr. Turner suggested a number of methods by which favorable publicity can be obtained.

The adoption of a good slogan, "so clever that people will pass it



**YORK
RAKE
MODEL RE**

**DOES ALL THESE JOBS, SAVES
USING EXTRA EQUIPMENT!**

Use it for

- 1 REMOVING STONES
- 2 REMOVING BRUSH, ROOTS AND DEBRIS
- 3 SPREADING TOP SOIL
- 4 GRADING, LEVELING AND MULCHING
- 5 BULLDOZING
- 6 DITCH MAINTENANCE AND TERRACING

• YORK RAKE (Model RE) at work on lawn grading project. Large stones have been removed, and soil is being readied for seeding.



- With only the YORK RAKE (Model RE) and a tractor, landscape gardeners and contractors now can perform most lawn building operations, up to the actual seeding. The Rake takes the place of several other pieces of mechanical equipment, as well as eliminating most hand labor . . . and pays for itself in a short time.

The YORK RAKE is built for use with all tractors equipped with 3-point hitch, such as Ford, Ferguson and numerous others. It's a highly versatile tool . . . removes stones, roots, brush, debris . . . spreads top soil . . . does a finished grading job . . . leaves an ideal bed for seeding. It also can be used as a bulldozer, and for ditch maintenance and terracing operations.

- Rugged construction assures trouble-free operation.
- Long wearing teeth are made of heat-treated alloy spring steel, rigidly attached to high carbon spring steel bars. Working width is adjustable from 6 ft. to 8 ft.

Optional Attachments (Caster Wheels, Grader Blade and High Lift) available at extra cost.

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MODERN CORPORATION
UNADILLA, NEW YORK

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PROVEN SOIL CONDITIONER

HIGHLY ABSORBENT

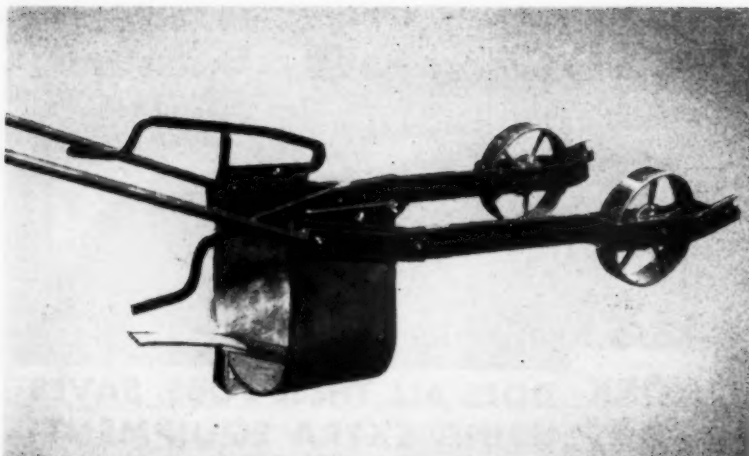
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PREVENTS LEACHING AND
WASTE—IMPROVES AERATING—EN-
COURAGES BENEFICIAL BACTERIA—
LASTS LONGER IN THE SOIL

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This sturdily built digger is now available in 12-inch, 18-inch and 24-inch sizes. We use top-quality spring steel blades, full ball bearing wheels and solid steel handles. Attachments available for direct tractor or side pulling. Extra blades available in all sizes.

Ask for descriptive folder and price list.

NEW ENGLAND TREE DIGGER AND ROOT PRUNER CO.

757 Washington St.

FAIRHAVEN, MASS.

*You can't beat
the Band*

**NO, SIR!
YOU CAN'T BEAT OUR NEW
CYPRESS PLANTBANDS
FOR**

- LOW-COST POTTING
- ECONOMICAL PLANTING
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PLANT GROWTH
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SEASON LAST a LOT LONGER

**OUR NEW
CYPRESS
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WON'T STEAL
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LAST SEVERAL TIMES
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**DESIGNED FOR MAXIMUM EFFICIENCY
THEY WILL MAKE MONEY FOR YOU**

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FORREST KEELING NURSERY
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CORRY PEAT

Fresh-water peat and peat humus now available from the centuries old bog at Corry, Pennsylvania. Packed in 25 and 50-pound rotproof bags. Also in bulk truckloads or carloads. For further information, write:

CORRY BOG, INC.

18 E. 18th St.

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along, person to person, with an approving smile," and its use in all advertising "until it becomes a part of the firm's name," was ranked first on the list of things to do to secure publicity. To illustrate this point Mr. Turner mentioned three slogans that are being used respectively by a fuel dealer, a dyeing establishment and a florist: "Our Fuel Makes Warm Friends," "Come Clean With Us and We'll Dye For You" and "Every Blooming Thing." Such slogans, he pointed out, are clever, friendly and carry a sales message. Good slogans often can be obtained, he said, as well as good public relations promoted, by running a contest and giving not only a first prize but many consolation prizes as well.

Another technique mentioned was the dramatization of such work as tree planting or landscaping on school grounds. Jobs of this nature, he said, have news value, especially if a ceremony is staged for the beginning or the end of the job, and editors and radio and TV newscasters will welcome a well-written story on it. In such work, Mr. Turner said, "you are not just planting a tree; you are promoting good public relations; your firm's name will be mentioned and seen on your trucks." Engaging in any sort of civic affairs, reporting and sending to the newspaper photographs of the "first" flowers of spring, giving moth cocoons to the schools, arranging for notables to plant trees on municipal grounds, furnishing radio and TV stations with scripts for programs on tree care—all these constitute possible methods of gaining publicity, Mr. Turner said. "But," he added, "all the favorable publicity in the world won't keep you ahead in business unless you have the knowledge and the product the customers want when publicity brings them to your place of business."

Improving Arboriculture

In an inspirational address, Norman Armstrong, arborist of Chapel Hill, N. C., said that the industry of arboriculture is "literally lifting itself by its own bootstraps," and urged that arborists stress "quality in their work rather than dollar profit alone," in order that the industry may continue to advance. He deplored the fact that the money spent on research in connection with shade and ornamental trees is a mere pittance as compared to the amount expended on research in many other fields of endeavor, but added that, considering the funds available, the federal, state and other plant research agencies have "done a good

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For rolling or aerating, this one machine can be used many times during the year. A natural for landscape men and institutions.



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job." He called attention to the present necessary practice of employing young men who have had no previous training in tree work, and urged that established and skilled arborists assist promising beginners in every way possible to learn more of the approved arboricultural practices.

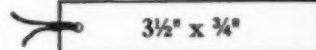
Mentioning the relatively low charges for arboricultural work performed, and the low wages paid to tree workers, Mr. Armstrong said, "Higher charges are not justified until we can give more. We should train our men so well that they can do high quality work; then we can pay them more, for we will then be justified in charging more for our services." He contrasted the comprehensive training that formerly was given men before they were permitted to perform actual tree work with the inadequate preparation of the present day and warned that, because of the latter condition, tree service is declining and will continue to decline unless the trend is reversed. In closing, Mr. Armstrong advised, "Give your client and his trees such good service that the client will remain your client year after year. Be honest with your client. Do a good job. You, as businessmen, must deliver the goods, or you soon won't have any goods to deliver."

"Transmission of the Oak Wilt Disease" was the topic of a talk delivered by Dale M. Norris, Jr., entomologist with Iowa State College, in which he told of recent research activities that gradually are providing information leading to control of this disease. Mr. Norris spoke briefly of the discovery of the spore-bearing fungus pads that develop on the wood of infected oaks and the fact that these spores can cause infection when introduced into a healthy tree, and added that successful transmission of the disease has been accomplished in laboratories, or under strictly controlled conditions, by using as a means of transmission the following: (1) Several species of the sap and fungus-feeding beetles in the family nitidulidae; (2) fruit flies of the family drosophila, and (3) squirrels.

Mr. Norris pointed out that none of these has been proved to be the vector of the disease under wholly natural conditions, but he added that the evidence supports any or all of them as candidates for the title of "vector of the oak wilt." Woodpeckers and sapsuckers also have been suspected, but to date transmission of the disease has not been accomplished with bird species. The spore-bearing fungus mats or pads, Mr.

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3 1/2" x 3/4"

- Patented cardboard backing permits easy embossing with ordinary lead pencil.
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MICHIGAN PEAT
 NATURE'S ORGANIC SOIL BUILDER
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100 lb. BURLAP
Bags with plastic liners.

50 lb.
WHITE bags plastic lined.

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Pack—clear
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BETTER BAGS • BETTER PROFITS
BETTER ADVERTISING . . . SELL IT — USE IT
Also a full line of Potting Soils—Free Samples

Nationally advertised in Better Homes & Gardens, House
 & Garden, House Beautiful, Flower Grower, Horticul-
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MICHIGAN PEAT, Inc., 267 Fifth Avenue, New York 16
 Peat Bogs, Capac, Michigan

Norris explained, are sweetish and attract insects, birds and squirrels. It is believed possible that these creatures in feeding on the fungus pick up spores on their bodies or mouth-parts. They also feed on the sap that oozes from freshly made wounds in healthy oaks. Thus, it may be that after feeding on a fungus mat they move to a freshly wounded but otherwise healthy oak and in feeding there leave enough of the spores to cause infection. This process may account for the long distance spread of the disease.

In the early studies of insects as possible vectors, Mr. Norris said, it was found that 500 to 1,000 insect species fed on oaks, and that most of these had to be considered as "suspects." After the discovery of the fungus pads, emphasis was placed on study of those insects that feed on fungi; these include the nitidulid beetles, the histid beetles, the staphylinid or "rove" beetles, the fruit flies, the fungus gnats and many others. After evidence indicated that fresh wounds in oaks might be a factor in spread of the disease, consideration of insects was narrowed to those species that feed on both the fungus and the sap from wounds. By such a process, Mr. Norris remarked, research progress is made.

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OF GREAT VALUE**

Truly an exceptionally fine instrument. Pencil-type, 5-in. metal barrel; sharp, clear lenses.

Ready for instant use.

Gives a startling revelation of the hidden beauties of nature, in the petals, stamens, leaves, bark and other plant life.

YOU and YOUR HELPERS should have a pocket microscope ready for instant use in the study of scales, red spiders, mites, insects and fungi, in fields, beds or greenhouses.

ORDER NOW—BE SURE

Cut your loss. Find your plant enemies. Then ACT.

A must for yourself

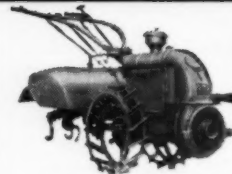
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20 power, \$3.50 (3 for \$ 9.00)
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NORTH WALES, PENNSYLVANIA

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HALPERN BROS. NURSERY BURLAP Squares and Rolls

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New WhiteShowers Misting Nozzle

The finest, simplest and most efficient nozzle for propagation and humidity control. Requires no tools, sweat fittings, solder, etc., or work of plumber or expert to install. Made of stainless steel.

Price only **\$3.00**

Sample with hose-testing cap \$3.75 postpaid

WHITESHOWERS, Inc.

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 DETROIT 3, MICH.

Control of Oak Wilt

In discussing control of the oak wilt disease, Mr. Norris said that trenching to sever the roots of infected trees, thus preventing spread through root grafts, and removal of infected oaks as soon as possible after the symptoms of infection appear, are still the approved methods of combating the disease. He further advocated measures calculated to result in rapid drying out of the wood of wilt-infected trees—debarking the trunk and large branches to prevent the formation of fungus pads. If the tree is not to be utilized for lumber or similar purposes, it should be destroyed by burning, he said. Studies of the insect-oak wilt relationship have not yet progressed to the point where recommendations as to the use of insecticides can be made, Mr. Norris stated.

Precautionary measures that may help prevent oak wilt infection, he said, include keeping the trees as healthy as possible; checking oaks periodically, especially during the active growing season, for wounds of any sort which might serve as an attractant to an oak wilt fungus-bearing insect and treating such wounds with some good wound dressing, and keeping rodent (squir-

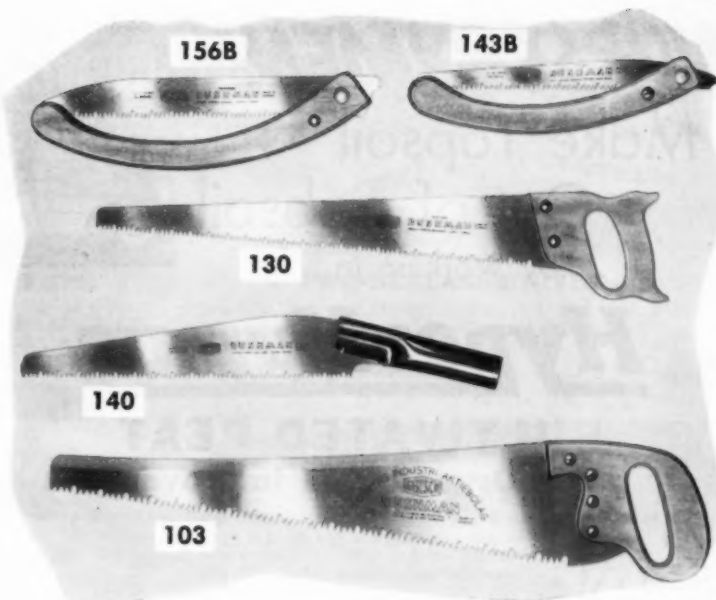
rel) and bird (woodpecker) activity at a minimum in the trees if inoculum-bearing wilted oaks are nearby, such as on an adjacent lot.

Treatment of Chlorosis

The final paper on the educational program of the conference was delivered by Joseph Antognini, of the Geigy Agricultural Chemicals Research Laboratory, Bayonne N. J., on "Sequestrene NAFc For the Treatment of Iron Chlorosis of Trees and Shrubs." Dr. Antognini explained that Sequestrene is the brand name for chelating compounds produced by the Geigy firm and that it is the iron complex of EDTA (ethylenediamine tetra-acetic acid). Compounds such as EDTA which combine with metals, he added, are called chelating agents, derived from the Greek word meaning claw. The iron complex, Sequestrene, is stable, he said, and is not readily broken down in the soil, but still has the ability to hold iron in a soluble form available to plants.

In treatment of chlorotic plants one disadvantage in the use of such iron compounds as iron sulphate, iron citrate and iron tartrate, Dr. Antognini stated, is the fact that frequently repeated applications are necessary, particularly where nutrient solutions are involved. In research work, he said, it was found that the iron supply could be maintained in nutrient solutions by single additions of ferric potassium ethylenediamine tetra-acetate, and this discovery touched off a greatly expanded program of research in this field. During the experimental work materials were applied to the soil, to the foliage and injected into the trunks of plants, principally citrus in Florida. It was found that one-third pound of Sequestrene per tree applied to the soil resulted in greening of the chlorotic foliage, and on the basis of the results of this experiment, Dr. Antognini said, Fe EDTA has been used commercially on a wide scale for the treatment of iron chlorosis of citrus.

During the past year, he said, Sequestrene NAFc was used on a commercial scale for treating chlorosis in a number of ornamentals and vegetables. These included azaleas, camellias, carnations, gladioli, rhododendrons, roses, magnolias, pin oaks and spruces in addition to turf, various fruits and vegetable plants. Many of the ornamentals, Dr. Antognini said, respond well to either soil or foliage applications. A single application, he asserted, will maintain the plants in a green condition for a period of three to 18 months.



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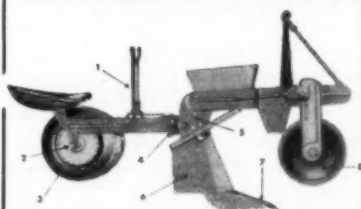
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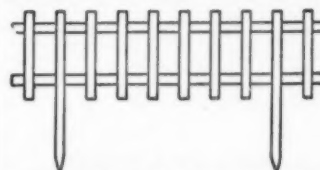
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PENNSYLVANIA CONFERENCE

[Continued from page 9]

used 2,4,5-trichlorophenoxy propionic acid and found it to be of real value in the rooting of difficult rhododendrons, particularly the hard-to-root red-flowering varieties, such as Edward S. Rand. In addition it has been tested on mature wood of Ilex opaca varieties taken in October and has proved excellent for the rooting of this particular plant taken at this time.

If wood is taken earlier on both rhododendron and ilex the chemical proves lethal and kills most of the cuttings, the speaker pointed out. No harmful aftereffects were noted on plants rooted by these strong chemicals when taken at the time mentioned above.

Hitchcock and Zimmerman reported that 2,4,5-trichlorophenoxy propionic acid has proved successful on Ilex opaca, Ilex aquifolium, Ilex crenata, genista species, roses, apples, crataegus species and tropical hibiscus when used at 0.05 to one milligram to the gram of talc.

Not Making Recommendations

"I would like to say emphatically that I am reporting experimental data and not making recommendations," Mr. Beatty declared. "The chemicals are extremely active and should only be used on a limited trial basis."

In most instances wood should be mature and even dormant. On immature wood or wood that is in active growth the lowest concentration should be tried, he said.

Manufacturers are in the process of making several concentrations of this material available to responsible propagators for trial work. They are endeavoring to compile all the data on the subject to give leads as to proper concentrations for use.

Indolebutyric acid used at much higher concentration than in the past has given promising results and this material will be offered for trial use.

"I think we have at this time many growth regulators or hormones more effective on specific plants than at any time in the history of this subject," Mr. Beatty declared, "but the trial of these materials at various concentrations on many different plants is a tremendous task."

In conclusion, the speaker made these points:

1. Root-inducing chemicals are no substitutes for skill and care in the timing and taking of cuttings. If a certain time of the year is best for a given plant, it is still the best time

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6 for	\$16.80	Dozen 28.00

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no matter what chemical is applied.

2. Many difficult-to-root cuttings respond to wounding whether they be treated with chemicals or not. According to the type of cutting, the wound may be a light one or a severe one. A light wound is made by drawing the tip of a sharp knife down the stem of the cutting for a distance of about one and one-half inches from the base.

3. Difficult-to-root cuttings often respond to conditions of high humidity or constant mist and this greatly enhances the value of chemicals and wounding.

Modern Landscape Practices

Wilbur I. Nisley, Walter-Nisley & Walter, Inc., Harrisburg, Pa., addressed the nurserymen on modern landscape practices.

Contemporary houses are informal, functional, light and airy, convenient and healthful, Mr. Nisley said. People are becoming suburbanites and the trend for the past 20 years has been to move into individual homes, outside the cities and towns.

The older houses had high and unsightly foundations that had to be screened; the house and plantings usually looked well from the front only. The modern home must look well from all sides, he declared.

Present day conditions bring about

more business for nurserymen and landscape men. The kinds of plant material and their uses are different. The modern home, school and factory are low and rambling, with no foundation showing. Nurserymen must use materials that are not only in scale, but which will remain so for a long period of time. They must use plants that stay presentable, plants that please by their daily presence in one's life.

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In selecting plants for a home planting, whether by a landscape architect or a nurseryman, the client's wishes should be taken seriously. We know that shapes and forms, fragrance, texture, color and sentiment play an important part in determining whether a plant is desirable or not to the client. These things go a long way in making him happy or unhappy.

"We should use plants that complement the lines of the house, rather than destroy them," Mr. Nisley continued. "We should avoid plants that, literally, one must 'sit up nights with.'"

Modern homes are mostly of 1-floor styles, the speaker said; therefore bedrooms are level or nearly level with the ground. This necessitates the provision of privacy as well

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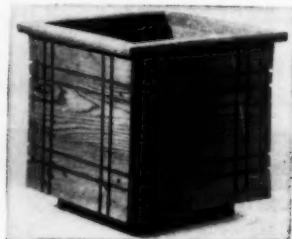
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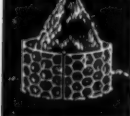
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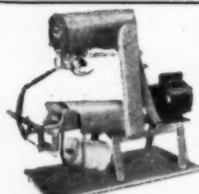


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as fresh air and light. This situation calls for special screen plantings, hedges or fences, so arranged as to promote privacy as well as fresh air and light.

More colorful materials, natural wood and stone are used in construction, he added; so, landscape planners need not provide flowering plants alone, but can utilize the shape, branch structure and texture of plants for the proper effect.

With garages holding everything that used to be in the attic and cellar, plus all the garden equipment, the car is left outside. Thus, off-street parking space must be provided and this area will need softening through proper planting.

Many modern houses have glass walls and large picture windows, so plants are visible from inside; one must therefore strive for 12 months of beauty where possible in our plantings. Evergreens transform without too much notice, but most other plants are without leaves for six months of the year. Texture, branch structure, bark color, seed pods, spines, fruit and colored leaves are among the plant features that make for year around interest. The selection of proper plants for modern homes taxes the creative powers of the nurseryman, Mr. Nisley declared.

Industrial Landscaping

"We are all aware of the strides that have been made in planning industrial buildings and schools and their surroundings," the speaker continued. "Well-designed buildings, healthful conditions for the workers or students and good landscaping result in better public relations and provide a new field for the landscape nurseryman. Some of the most profitable planting jobs in recent years have been in the field of industrial and school landscaping."

Hospitals, municipal buildings, super highways, etc., have created more planting opportunities. Practices in the planting of street trees have also changed in cities and towns. In days past, because of lack of foresight, lack of proper knowledge and the desire for quick results, wrong varieties of trees were used in many localities for street trees.

The trend is changing for the better, Mr. Nisley concluded, and many communities now have tree commissions and tree wardens that direct the planting and care of the street trees, regulate the spacing, name the varieties to be used and cause the removal of undesirable trees.

"Modern Lawn Maintenance" was the subject chosen by William H.

Daniel, department of agronomy, Purdue University. Mr. Daniel pointed out that Kentucky bluegrass seed is in short supply, and therefore the price is high. At the same time, he added, production of Merion bluegrass is increasing rapidly and Merion therefore becomes a good choice for use.

"So far all experimental evidence points out that Merion is best when planted in early fall or early spring without severe competition from faster-growing grasses," Mr. Daniel stated. "It is somewhat resistant to leaf spot; therefore, it allows less weedy grass infestation. It is not a fast growing seedling and for that reason is the underdog when used as a minor portion of a seed mixture which is planted at heavy rates."

Fertilizers

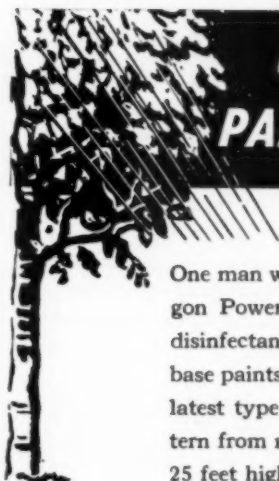
There are many special formulations of liquid and soluble fertilizers on the market today, the speaker continued, particularly in small packages recommended for lawn feeding. Nurserymen would be wise to notice the analyses on these packages, for example, 15-15-15, and to calculate the actual fertilization components they contain. It is easy to find small-packaged materials which are 50 times as expensive as regular fertilizers sold to farmers and gardeners through regular channels. Certainly the convenience of using these materials is considerable, but one might question how much one is willing to pay for convenience, advertising and special packaging, he added.

It is a standard rule that cool season grasses should be fertilized in the spring and fall, Mr. Daniel went on. If one has a consistent fertilizing program the best times to fertilize are in the late spring and the late fall. If one has a hodgepodge program, or a new program just starting, fertilization should be done in early fall, early spring and as often as possible.

Turning his attention to clover control, Mr. Daniel said that an area can be rid of clover by using 2,4,5-T. The low volatile ester formulations are most readily available. For broad-leaved weeds, a mixture of two-thirds 2,4,5-T and one-third 2,4-D, applied at a rate of one pound actual acid equivalent to the acre should be satisfactory, he said. Care is needed in applying these hormone materials.

Crab Grass Control

Those in the midwest area are perennially bothered by the annual infestations of various forms of crab grass, Mr. Daniel observed. It is



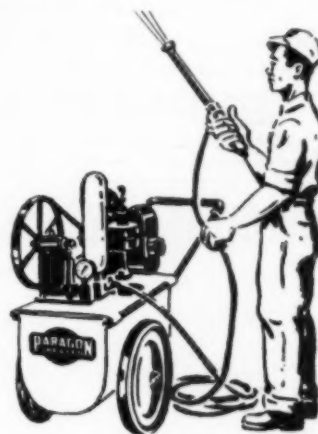
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difficult to keep the cool season blue-grasses, fescues, etc., so dense that the crab grass seedlings cannot survive.

Chemical control of crab grass has been studied at many experiment stations, and the majority of this work conclusively shows that one can expect to kill only the crab grass which germinates during that growing season. One should consider that there is a potential new supply of seeds near the surface which will germinate when the opportunity arises, he pointed out. For the person with good spray equipment and knowledge of careful procedures the phenyl mercury acetate formulations may be used as a weekly spray during early June or late May. For the person with less equipment and less time potassium cyanate may be used in one of the many formulations marketed. This can be used at any time of the crab grass growing season, but it is best used on maturing crab grass when its presence becomes obvious.

The speaker mentioned another material that has worked satisfactorily and is being marketed in greater quantities, a mixture of Milorganite and potassium cyanate—Milcyanate. This 4 per cent dust may be spread over the lawn at 10 to 15 pounds to 1,000 square feet, thus killing crab grass and providing an organic fertilization. Every test which has been reported using this material has been rather satisfactory—a real compliment to any chemical weed control material, Mr. Daniel concluded.

Comprehensive summaries of additional papers presented at the Pennsylvania nurserymen's short course will appear in a subsequent issue of the American Nurseryman.

DR. A. F. YEAGER HONORED

The Manitoba Horticultural Association, at its 56th annual meeting, held February 17 to 19, at Winnipeg, Man., Canada, honored Dr. A. F. Yeager, head of the horticulture department, University of New Hampshire, Durham, N. H., with the Stevenson memorial gold medal. He was the third person from the United States to receive this honor. Five Canadians have also received it.

Dr. A. F. Yeager, along with his staff at the university, has introduced many new fruits, vegetables and ornamentals of special interest in the north. The Durham everbearing raspberry has done well in Oregon, the Dakotas, Michigan and New England. Good reports have also come from as far south as Missouri and Virginia. L. A. D.

PLANT ECOLOGY

[Continued from page 12]

the trade or are easily collected from a friendly farmer's fields. Just a few examples of the herbaceous plants are:

Yarrow—*Achillea millefolium*
 Butterfly milkweed—*Asclepias tuberosa*
 Many asters
 Bluets—*Houstonia caerulea*
 Blue flag iris—*Iris versicolor*
 Lobelia—*Lobelia spicata*
 Wild lupine—*Lupinus perennis*
 Wild bergamot—*Monarda fistulosa*
 Evening primrose—*Oenothera perennis*
 Beardtongue—*Penstemon hirsutus*
 Many clovers
 Speedwell—*Veronica officinalis*
 Violet—*Viola fimbriatula*
 Hay-scented fern—*Dicksonia punctilobula*

There are several shrubs and small trees that appreciate the sunny conditions of an open field or feel at home in the abandoned field or in the hedgerow that edges the pasture. A few of them are:

Gray dogwood—*Cornus racemosa*
 Sweet fern—*Comptonia asplenifolia*
 Bush cinquefoil—*Potentilla fruticosa*
 Meadow rose—*Rosa blanda*
 Sumac—*Rhus copallina*
 Withe rod viburnum—*Viburnum cassinoides*
 Arrowwood viburnum—*Viburnum dentatum*
 Nannyberry viburnum—*Viburnum lentago*
 Black haw viburnum—*Viburnum prunifolium*

Two vines often appear as members of this association or may be found growing over a stone wall—bittersweet (*Celastrus scandens*) and Virginia creeper (*Parthenocissus quinquefolia*). The southern and northern fox grape often reside here also.

Juniper Association

There follows an interesting transition as red cedars (*Juniperus virginiana*) begin to dot the rolling fields, crown the knolls, line the ridges or appear in groups of varying numbers on the slopes. Because these plants are of a definite form and occur in impressive numbers, they, together with the plants around them, become known as the juniper association. The common juniper (*Juniperus communis*) continues to be present, as in the previous association.

If we examine the red cedar, it

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becomes obvious to us that this plant
grows well in soils which have a low
organic matter content and has a root
system that penetrates deeply to find
moisture. Other plants found in the
juniper association are suited to the
same growing conditions. However,
these members will also grow in bet-
ter soils or where moisture is readily
available.

There is a large carry-over from
the previous association. After all,
there is not a wall or a chalk mark
to divide one association from the
next. As conditions, such as the soil
structure and availability of sunlight,
change more drastically, so do the
plants. The change extends over
many years.

The shrubs and small trees of the
open-field association are included
again, with a few new ones added.
For instance, black locust (*Robinia
pseudoacacia*) makes its entry, as do
the northern bayberry (*Myrica
pensylvanica*) and lowbush blue-
berry (*Vaccinium pensylvanicum*).
The herbaceous plants change slight-
ly, but there is a complete influx of
new ferns, namely, common poly-
pody (*Polypodium vulgare*), Christ-
mas fern (*Polystichum acrosticho-
ides*), shield fern (*Dryopteris mar-
ginalis*) and maidenhair spleenwort
(*Asplenium trichomanes*).

Gray Birch Association

There is a joyful side to nature at
times, and in plant ecology it is the
advent of the gray birch association.
I say "joyful," because what sparks a
planting or hillside more than the
fresh, white branches of these plants?
The gray birches gradually invade
and take over. For a time there is a
mixture of birches and junipers, but
finally the gray birches become kings
of the field.

Other shrubs and trees are not in
evidence as much and sometimes not
at all. The ferns and herbaceous
plants abound in the filtered sunlight
of these clump growers. Think of
plantings that you know, and replace
them in your imagination with gray
birches underplanted with masses of
Christmas ferns, shield ferns, com-
mon polypody ferns and maybe, too,
speedwells, cinquefoils and trailing
arbutus. It has possibilities, even with
improvisations.

In some areas white pine or pitch
pine seedlings begin to grow beneath
the birches, and they in time replace
the gray birch association. Such an
association is not always in evidence,
but, when the pine association is
present, it embraces many of the
ferns and such new entries as bunch-
berry (*Cornus canadensis*), winter-

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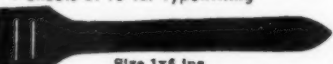
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green (*Gaultheria procumbens*), pipsissewa (*Chimaphila umbellata*), partridgeberry (*Mitchella repens*) and lady's-slipper (*Cypripedium acaule*).

The red pine (*Pinus resinosa*) may be included along with the white pine in northern areas of this northeastern section. On Long Island, pitch pine (*Pinus rigida*) is the dominant one.

Oak Association

In some cases the change is from gray birch to oak association, with no pines included as part of the parade. Oaks are considered to be upland trees and may directly follow the gray birches. It is possible, in the early stages of transition, to see the oaks gradually crowding out the birches, or, if pines are present after the birches, they may continue as an occasional specimen on a ridge, with the oaks moving in eventually to take possession.

Oaks are not the only trees that are present. There begins a more luxuriant growth of trees that attain great height and those that are not easily discouraged by the infiltration of rugged individuals.

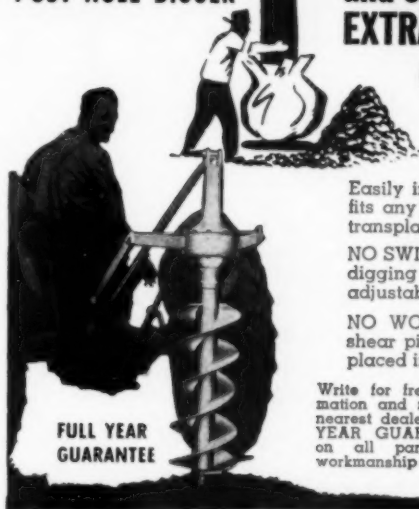
In the early stages when the woodlands are more open, hickory is common, as are sassafras and hop hornbeam (*Ostrya virginiana*). As the shade increases, tulip tree, flowering dogwood, basswood and various species of oak make their entry.

It is interesting to note that some oaks adapt themselves to a wide range of soils, and others are more particular. The black, scarlet and white oaks (*Quercus velutina*, *Q. coccinea*, and *Q. alba*) are found in soils having little organic matter and in soils that abound in it. The chestnut oak (*Q. montana*) is usually found in soils that have deep topsoil, but occasionally in upland soils with somewhat thin topsoil. The northern red oak (*Q. borealis*) is rarely found except where there is good soil, while in reverse the post and blackjack oaks (*Q. stellata* and *Q. marilandica*) are commonly seen in gravelly to sandy types of soil that have thin carpets of humus.

There are many small trees and shrubs of the oak association that form interesting landscape groups. Included are downy shad-blow (*Amelanchier canadensis*), common witch hazel (*Hamamelis virginiana*), common winterberry (*Ilex verticillata*), mountain laurel (*Kalmia latifolia*), common buckthorn (*Rhamnus cathartica*), pinxterbloom azalea (*Azalea nudiflora*) and mapleleaf viburnum (*Viburnum acerifolium*).

The list of herbaceous plants is too

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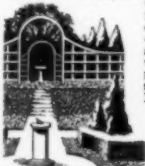


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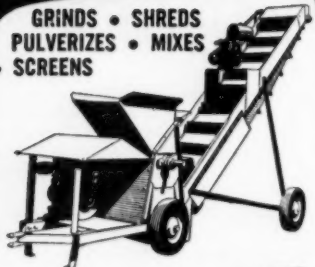
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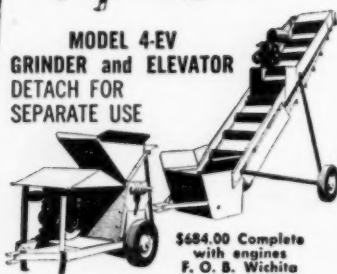
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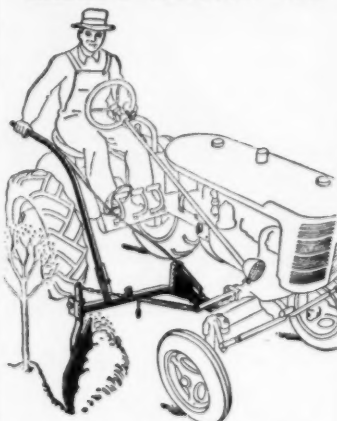
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extensive to incorporate in this article. A few examples are white and red baneberries (*Actaea alba* and *A. rubra*), wild columbine (*Aquilegia canadensis*), wild indigo (*Baptisia tinctoria*), spring beauty (*Claytonia virginica*), wild geranium (*Geranium maculatum*), hepatica (*Hepatica triloba*), bloodroot (*Sanguinaria canadensis*) and wild ginger (*Asarum canadense*). The list of ferns and mosses includes some from the previous association, but augments it with such unusual names as walking leaf (*Camptosorus rhizophyllus*) and rattlesnake fern (*Botrychium virginianum*).

Beech-Maple-Hemlock

The final or climax association, beech-maple-hemlock, includes the three genera in varying proportions, depending upon the supply of moisture, the temperature and quality of soil.

Occasionally a few other shrubs and trees appear as undergrowth—usually young trees from this forest floor pattern. There is a luxuriant growth oftentimes of herbaceous plants that flower, usually, in early spring, before the leaves appear to prevent the sunlight from sifting through. Trilliums, Dutchman's-breeches, bellworts, wild ginger, violets, starflowers and other flowers awaken the interest of the most casual of casual observers when they take the spotlight from the canopy of large trees.

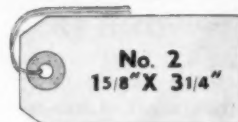
Such a woodland exists on land that has been untouched for many years. It is a world of wonders—a woodland of smooth-barked beeches, rugged-barked sugar maples and lush green hemlocks.

In northern areas striped maple (*Acer pensylvanicum*), mountain maple (*Acer spicatum*) and yellow birch are the tree representatives. As one journeys southward through the Hudson valley and along Long Island's north shore, one finds that these trees are rarely members of the association, but sweet birch (*Betula lenta*), white ash (*Fraxinus americana*) and tulip tree (*Liriodendron tulipifera*) remain associated with the beech-maple-hemlock association.

Many shrubs continue from the oak association, and Canada yew (*Taxus canadensis*) may be found in the cool shade of a hemlock.

There is more to be learned from plant associations than can be included at this writing. It is all fascinating, increasingly so to those who take time to make a serious study of it.

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